RED RIVER DIVERSION

FARGO – MOORHEAD METRO FLOOD RISK MANAGEMENT PROJECT, FEASIBILITY STUDY, PHASE 4

APPENDIX G – COST ESTIMATES EXHIBIT D – QUANTITY SUMMARY FOR COST ESTIMATE – LPP NORTH DAKOTA DIVERSION

Report for the US Army Corps of Engineers, and the cities of Fargo, ND & Moorhead, MN

By: Barr Engineering Co.

FINAL – February 28, 2011

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	DIVERSION	. 2

ATTACHMENTS

G-D1.0 Quantity Summary for Cost Estimate – LPP NORTH DAKOTA DIVERSION

APPENDIX G COST ESTIMATES

EXHIBIT D – QUANTITY SUMMARY FOR COST ESTIMATE – LPP NORTH DAKOTA DIVERSION

G-D1.0 QUANTITY SUMMARY FOR COST ESTIMATE - LPP NORTH DAKOTA DIVERSION

Attachment G-D1.0 of this Exhibit D presents the quantity summary for cost estimates for the LPP North Dakota Diversion.

		Job Number:	34-09-100	04.00 400 100	
Barr Engin	eering Company				
Project:	Fargo-Moorhead Metro Flood Risk Management Project	Computed:	MRM	Date	: 2/28/201
Subject:	Phase 4 - Feasibility Cost Estimate				
Task:	Cost Estimate - Quantity Summary - LPP NORTH DAKOTA DIVERSION	Sheet:	1	d	f
Status:	draft				

Quantities used to develop the LPP North Dakota Diversion MII cost estimate files are shown below.

			Particular Development Text Co. A				
Item Item Description 1 Lands and Damages	Work Task Group	Folder Item (Work Task)	Project Item Description (Work Task Crew)	QTY	UNIT	Quantity Source	
1 Lands and Damages 2 Relocations	(Corps of Engineers) (Corps of Engineers)					-	-
6 Fish and Wildlife Facilities	(Corps of Engineers)					†	-
8 Roads, Railroads and Bridges	(Corps of Engineers)				-		-
9 Channels and Canals	(corps of Eligineers)					1	+
5 CHAINCIS AND CANAIS	Diversion Channe	N Pagion 2012				†	
	Diversion Channe		Site Preparation and Traffic Control		LS		-
		Site Preparation and Traffic Control Clearing and Grubbing	Site Preparation and Traffic Control Clearing and Grubbing	1 13	AC		-
		Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	1.189	I F	-	-
		remporary crosion and sedimentation control	Erosion Control Blanket - Furnish and Install	1,833	SY	+	+
			Temporary Sedimentation Basins	1,733	BCY	 	-
			Rock Checks	3	EA	+	+
		Dewatering and Control of Water	Dewatering	4	DAY	1	-
		Dewatering and Control of Water	Temporary Storm Sewer Pipe	19	LF	 	-
			Control of Water	1	LS	 	
		Strip and Stockpile Topsoil - Channel	Topsoil - Strip	8,107	BCY	+	
		Strip and Stockpile ropsoil - Channel	Topsoil - Storip	8,107	BCY	+	+
		Strip and Stockpile Topsoil - Spoil Berm	Topsoil - Stockpile Topsoil - Strip and Stockpile	13,215	BCY	 	+
		Excavation and Embankment - Channel - Type 1 Non-Saturated	Topour Strip and Stockpite	13,213	DC1		1
		Non-Brenna	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	34,231	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	34,231	BCY	1	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	34,231	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCY		
		Excavation and Embankment - Channel - Type 2 Saturated Non-				†	
		Brenna	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	67,075	BCY		
			Earthwork - Type 2 Saturated Non-Brenna - Spoil	67,075	BCY		
			Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	67,075	BCY		
			Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY		
		Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Earthwork - Type 3 Oxidized Brenna - Excavate	0	BCY		
			Earthwork - Type 3 Oxidized Brenna - Haul	0	BCY		
			Earthwork - Type 3 Oxidized Brenna - Spoil	0	BCY		
			Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0	BCY		
		Excavation and Embankment - Channel - Type 4 Brenna	Earthwork - Type 4 Brenna - Excavate	0	BCY		
			Earthwork - Type 4 Brenna - Haul	0	BCY		
			Earthwork - Type 4 Brenna - Spoil	0	BCY		
			Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY		
		Excavation and Embankment - Channel	Earthwork - Haul From No-Spoil Areas	0	BCY		
		Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	593	BCY		
			Aggregate Base - Class V - Furnish and Install	333	ECY		
			Haul Road Maintenance	2	DAY		
		Excavation and Embankment - Channel - Lower Bank Protection					
		Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY		
			Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY		
			Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	1,259	BCY	ļ	
			Earthwork - Type 2 Saturated Non-Brenna - Spoil	1,259	BCY		
			Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	1,259	BCY		
			Earthwork - Type 3 Oxidized Brenna - Excavate	0	BCY		
			Earthwork - Type 3 Oxidized Brenna - Haul	0	BCY		
			Earthwork - Type 3 Oxidized Brenna - Spoil	0	BCY	ļ	
			Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0	BCY		
			Earthwork - Type 4 Brenna - Excavate	0	BCY		
			Earthwork - Type 4 Brenna - Haul	0	BCY		
			Earthwork - Type 4 Brenna - Spoil	0	BCY		
			Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY		
		Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	815	CY	1	

Lonstruction Cost Estimate Framewo	ork and Quantities - LPP NORTH DAKO		,.	., ., .,	
 		Lower Bank Protection Geotextile - Furnish and Install	2,778	SY	
		Grade Control Riprap - Furnish and Install	38	CY	
		Grade Control Geotextile - Furnish and Install	34	SY	
	Topsoil Placement - Channel	Topsoil - Install from Stockpile	2,702	BCY	
	Topsoil Placement - Spoil Berm	Topsoil - Install from Stockpile	18,620	BCY	
	Dust Control	Dust Control	6	DAY	
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	0.1	Mile	
		Restore Local Haul Roadways - Bituminous Surfacing	0.0	Mile	
 	Site Restoration	Seeding	13	AC	
		Straw Mulch and Disk Anchoring	13	AC	
		Vegetation Establishment and Maintenance	13	AC	
	Snow Removal	Snow Removal	23	HOURS	
	Miscellaneous	Monuments and Markers	1	LS	
Diversion Channe	- Region 2013				
	Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
	Clearing and Grubbing	Clearing and Grubbing	6	AC	
	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	4,520	LF	
	Temporary crossoriana Sedimentation Control	Erosion Control Blanket - Furnish and Install	6,967	SY	
		Temporary Sedimentation Basins	7,733	BCY	
		Rock Checks	10	EA	
	Dewatering and Control of Water		16	DAY	
	Dewatering and Control of Water	Dewatering Tomograp Storm Source Pine	72	LF	
	+	Temporary Storm Sewer Pipe			
	Strin and Stockalla Toncall, Channel	Control of Water	1 38,473	LS BCY	
 	Strip and Stockpile Topsoil - Channel	Topsoil - Strip			
 	Control of	Topsoil - Stockpile	38,473	BCY	
 	Strip and Stockpile Topsoil - Spoil Berm	Topsoil - Strip and Stockpile	55,232	BCY	
	Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	161,848	всу	
	Non-Brenna			BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	161,848 161,848	BCY	
 				BCY	
	Excavation and Embankment - Channel - Type 2 Saturated Non-	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCT	
	Brenna	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	192,083	всу	
	Dieilia	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Hadi	192,083	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	192,083	BCY	
 		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
 		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	U	BCT	
	Everystian and Embankment Channel Type 3 Oxidized Bronns	Earthwork, Type 2 Oxidized Broppe, Eucayate	199,411	BCY	
	Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	199,411	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil	199,411	BCY	
	+				
 		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	199,411	BCY	
 	Excavation and Embankment - Channel - Type 4 Brenna	Earthwork - Type 4 Brenna - Excavate			
 		Earthwork - Type 4 Brenna - Haul	0	BCY	
 	+	Earthwork - Type 4 Brenna - Spoil	0	BCY BCY	
 	 	Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content			
	Excavation and Embankment - Channel	Earthwork - Haul From No-Spoil Areas	0	BCY	
 	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,252	BCY	
	 	Aggregate Base - Class V - Furnish and Install	1,267	ECY	
		Haul Road Maintenance	9	DAY	
	Excavation and Embankment - Channel - Lower Bank Protection	Sanharah Tara A Nas Catarahad Nas Darana Sanara	0	BCY	
 	Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul			
	+	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
			0		1
 	 	Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil	0	BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semil Compact and Manage Moisture Content	0 0 0	BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate	0 0 0 4,786	BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	0 0 0 4,786 4,786	BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	0 0 0 4,786 4,786 4,786	BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil	0 0 0 4,786 4,786 4,786 4,786	BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Exami Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0 0 0 4,786 4,786 4,786 4,786 0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul	0 0 0 4,786 4,786 4,786 4,786 0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil	0 0 0 4,786 4,786 4,786 4,786 0 0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil	0 0 0 4,786 4,786 4,786 4,786 0 0	BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Doxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil	0 0 0 4,786 4,786 4,786 0 0 0 0 0 0 0 0 0	BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Soturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Exavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 5 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 8 Brenna - Sp	0 0 0 4,786 4,786 4,786 0 0 0 0 0 0 0 0 0 0 0 0,096	BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Exavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Exavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Gardwork - Type 4 Brenna - Spoil Gardwork - Type 4 Brenna - Spoil Gardwork - Type 4 Brenna - Spoil Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install	0 0 0 4,786 4,786 4,786 4,786 0 0 0 0 0 0 0 0 0 0 0 10,556	BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Oxidized Brenna - Seni Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Garthwork - Type Brenna - Type Bren	0 0 0 4,786 4,786 4,786 0 0 0 0 0 0 0 0 0 10,556 145	BCY	
	Topsoil Placement - Channel	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Soturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Garthwork - Type 4 Brenna - Spoil Garde Control Biprap - Furnish and Install Grade Control Biprap - Furnish and Install Grade Control Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install	0 0 0 4,786 4,786 4,786 4,786 0 0 0 0 0 0 0 0 10,556 145 131 12,824	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Oxidized Brenna - Seni Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Garthwork - Type Brenna - Type Bren	0 0 0 4,786 4,786 4,786 0 0 0 0 0 0 0 0 0 10,556 145	BCY	
	Topsoil Placement - Channel	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Soturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Garthwork - Type 4 Brenna - Spoil Garde Control Biprap - Furnish and Install Grade Control Biprap - Furnish and Install Grade Control Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install	0 0 0 4,786 4,786 4,786 4,786 0 0 0 0 0 0 3,096 10,556 145 131 12,824 80,881	BCY	
	Topsoil Placement - Channel Topsoil Placement - Spoil Berm	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Sexavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Garthwork - Type Brenna - Spoil Garthwo	0 0 0 4,786 4,786 4,786 4,786 0 0 0 0 0 0 3,096 10,556 145 131 12,824 80,881	BCY	

Common		Site Restoration	Seeding	58	AC	
		Site Restoration				
						
Diversion Channel: **Region 2014 **Section Channel: **Pergion 2014 **Section Channel: **Pergion 2014 **Section Channel:	 	Snow Removal				
Discretion Channel - Region 2014 St. Improvembre and Traffic Genomy 1 St.						
Designation of Find Content 1	 Diversion Channe		monance and market			
Charging and Coloring Char	 Diversion channe		Cita Deparation and Teaffic Control	1	1.0	 ļ
Perspany shows and federate active Cornel Perspany Secure and Indiversal Perspansion States Perspansion Stat						
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Control Water Control Control Water Control Control Water Control Cont				500		
Septiminate						
Spring of biological frogers of broad frogers Spring and Broady Spring and Broad		Strip and Stockpile Topsoil - Channel	Topsoil - Strip	269,902	BCY	
Residence of improvement - Coursed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 1 Nov-Selection Serifficed - Type 2 Selection Nov-Seriff Compared and Nov-Serifficed - Nov-Serif			Topsoil - Stockpile	269,902	BCY	
See Seron Carrimon 1, 1961 No. Secretar Secretary S			Topsoil - Strip and Stockpile	484,835	BCY	
Carbonian of England Programs 1,000,000 1,000,00						
Instruct. Tags 1 Not Gistrated From Enteres. Sent Comput and Manage Michael Centered	 	Non-Brenna				
Decaydon and Endochment - Chamel - Type 2 Start and No. Bermann. Type 3 Start Start Prob. Brown Start						 ļ
Standard Information Control - Type 2 Standard Non- Breeze Standard Many Standard Non- Breeze Standard Non-Breeze - Carend and food Standard - Type 2 Standard Non-Breeze - Carend and food Standard - Type 2 Standard Non-Breeze - Carend and food Standard - Type 2 Standard Non-Breeze - Carend Standard Non- Breeze Standard Non-Breeze - Carend - Type 3 Doubled Breeze - Standard Non- Standard - Type 3 Doubled Breeze - Standard Non- Breeze - Type 3 Doubled Breeze - Standard - Type 4 Doubled Breeze - Standard						
Service		 	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCY	 ļ
Estimated Topic Standard Rose Bream Service (Service Service			Farthwork - Tune 2 Saturated Non-Brenna - Evoquate and Hauf	1 620 021	BCV	
Earthwork Top 2 Statuted Non-Bernary - Non-		DICINIO				 1
Carbotic and Embaniment - Channel - Type 3 Oxidered Bresson - Secret Embaniment Channel - Type 3 Oxidered Bresson - Secret Embaniment - Channel - Type 3 Oxidered Bresson - Secret Compared and Manage Mostorer Content						
Securition and Embankment - Charvel - Type 3 Oxidized Berons - Escavote		 				 t
Interface Inte			Edition Type 2 Sudded Not Stelling Edited Editional Control		DC.	
Carestron - Top Dollsted Browns - Spell 1.447,138 CY 1.447,138		Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Earthwork - Type 3 Oxidized Brenna - Excavate	1,447,138	BCY	
Cardword - Type 3 Doddeed Bremas - Sent Compact and Manage Mosture Content 1,471,38 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,656 Se7 Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,657 Ser Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,657 Ser Cardword - Type 4 Bremas - Sent Compact and Manage Mosture Content 20,657 Ser Ser Sent Management - Sent Compact and Manage Mosture Content 20,657 Ser Ser Sent Management - Sent Compact and Manage Mosture Content 20,657 Ser						
Conception and Industrients - Channel - Type 4 Breman - Excavate 20,465 BCY Earthwork - Type 4 Breman - Excavate 20,465 BCY Earthwork - Type 4 Breman - Speal 20,465 BCY			Earthwork - Type 3 Oxidized Brenna - Spoil	1,447,138	BCY	
Extractor-Type & Broma-Hull 20,485 BCY Extractor-Type & Broma-Sepil 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,485 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact and Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact And Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact And Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact And Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact And Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact And Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorpact And Manage Moisture Content 20,222 BCY Extractor-Type & Broma-Scorp			Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	1,447,138	BCY	
Extraction - Type a Bernear - Speal Common - Speal Common - Speal Common - Type a Bernear - Speal Common - Speal Common - Speal Common - Type a Bernear - Speal Common - Speal Common - Speal Common - Type a Bernear - Speal Common - Speal		Excavation and Embankment - Channel - Type 4 Brenna	Earthwork - Type 4 Brenna - Excavate	20,465	BCY	
Extraoric - Type 4 Browns - Compact and Manage Mosture Content 20.455 8CY			Earthwork - Type 4 Brenna - Haul			 <u> </u>
Excavation and finabantment - Channel Earthwork - Hauf rrom No Spoid Areas Spoid						
Emproyary Houle Roads						
Aggregate Base - Class V - Funchs and Install 8,800 ECY						 ļ
Hould Road Maintenance Float Road Maintena	 	Temporary Haul Roads				
Excavation and finhantment - Channel - Lower Bank Protection	 					
Right Righ		Exceptation and Embankment Channel Lower Bank Protection	naui Road Maintenance	03	DAT	 ļ
Carthwork - Type 1 Non-Saturated Non-Remons - Spoil 0 8CY			Farthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	
Sarthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content 0 8CY 1 1 1 1 1 1 1 1 1		Improp Excuration				
Sarthwork - Type 2-Saturated Non-terma - Excavate and Haul						
Sarthwork - Type 2 Saturated Non-Brenna - Spoil 0 BCY					BCY	
Earthwork - Type 2 Sulturated Non-Seronan - Semit Compact and Manage Moisture Content 0, 8CY 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,						
Earthwork - Type 3 Ouditied Brenna - Excavate 26,222 SCY				0	BCY	
Earthwork - Type 3 Oxidized Brenna - Haul 26,222 BCY SET S				26,222	BCY	
Earthwork - Type 4 Brema - Semi Compact and Manage Moisture Content				26,222	BCY	
Earthwork - Type 4 Brenna - Excavate 7,025 BCY				26,222		
Earthwork - Type A Brema - Haul						
Earthwork - Type 4 Brenna - Spoil Farthwork - Type 4 Brenna - Spoil Compact and Manage Moisture Content Farthwork - Type 4 Brenna - Spoil Compact and Manage Moisture Content Farthwork - Type 4 Brenna - Spoil Compact and Manage Moisture Content Farthwork - Type 4 Brenna - Spoil Farthwork - Type 4 Brenna - Semi Content Install from Stockpile Farthwork - Type 4 Brenna - Type 4 Brenna - Spoil Farthwork - Type 4 Brenna - Type 4 Brenn	 					
Earthwork - Type 4 Brenna - Semt Compact and Manage Moisture Content						 ļ
Low Flow Channel and Lower Bank Protection Lower Bank Protection Riprap - Furnish and Install 21,511 CY						 ļ
Lower Bank Protection Geotestile - Furnish and Install 73,333 57 77 78 78 78 78 78 78		 				 ļ
Grade Control Riprap - Furnish and install 1,009 CY		Low Flow Channel and Lower Bank Protection				 1
Grade Control Geotextile - Furnish and Install 999 5Y 5Y 5Y 5Y 5Y 5Y 5	 	 				
Topsoil Placement - Channel Topsoil - Install from Stockpile 89,967 BCY Topsoil Placement - Spoil Berm Topsoil - Install from Stockpile 664,769 BCY Fopoil Berm Topsoil - Install from Stockpile 664,769 BCY Fopoil Berm Fopoil - Install from Stockpile 664,769 BCY Fopoil Fopoil Fopoil For Fopoil Fopo	 					
Topsoil Placement - Spoil Berm Topsoil - Install from Stockpile 664,769 DCY		Tonsoil Placement - Channel				 l
Dust Control Dust						 t
Restore Local Roadways Restore Local Haul Roadways - Aggregate Surfacing 2.5 Mile						 1
Restore Local Haul Roadways - Bituminous Surfacing 0.8 Mile 6.2 Mile 7.2 Mi	 					
Site Restoration Seeding 467 AC		1				 1
Straw Mulch and Disk Anchoring		Site Restoration				 1
Vegetation Establishment and Maintenance 467 AC 500 MCVS 500 MEmoval 500 MCVS 500 MEmoval 600 MCVS 500 MEmoval 500 MCVS 500 MEmoval 500 MCVS 500 MC						
Snow Removal Snow Removal 600 HOURS						
Diversion Channel - Region 2015 Site Preparation and Traffic Control Site Preparation and Traffic Control 1 LS		Snow Removal				
Site Preparation and Traffic Control Site Preparation and Traffic Control 1 LS		Miscellaneous	Monuments and Markers	1	LS	
Site Preparation and Traffic Control Site Preparation and Traffic Control 1 LS	Diversion Channe	l - Region 2015				
			Site Preparation and Traffic Control	1	LS	
	 	Clearing and Grubbing	Clearing and Grubbing	186		

Second part	xhibit - Construction Cost Estimate Framewor		I A DIVERSION			
Temporary influences bears 1973 1974 1975		Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	121,318	LF	
March Marc						
Monotonius participation demant						
Part			Rock Checks			
Control of water		Dewatering and Control of Water	Dewatering		DAY	
Control of Water 1			Temporary Storm Sewer Pipe	1,932	LF	
Stock Stoc				1	LS	
Repost Decignity Security		Strip and Stockpile Topsoil - Channel	Topsoil - Strip	935,824	BCY	
Separate Separate Separate Separate			Topsoil - Stockpile	935,824	BCY	
Control of Control and Contr		Strip and Stockpile Topsoil - Spoil Berm			BCY	
Internation of Control International Control Int						
Comment Comment Type Section of International Plant Plants Company and Visional National Nat			Farthwork - Tyne 1 Non-Saturated Non-Brenna - Excavate and Haul	3.111.316	BCY	
Part						
Internation and include sever. Charmie Type 1 Internation of Control of Control of Type 1 Internation of Control of Contr						
Exception and Englandment - Channel - Type 2 Selected No.						
Internation of Control of Management Control		Eucayation and Embankment Channel Type 2 Caturated Non	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCI	
Gardwein Tage Salestate Not Retires 1, 2001 Salestate 1, 2001 Salestat			Earthweek, Time 2 Saturated Non-Branca, Everyote and Haul	2 006 425	lecv	
Carebook - Type 2 - Shoutest Not Review - Service Compact and Manage Modural Content Assessment - Channel - Type 1 Outliered Review - Type 1 Out		Dielilia				
Secretion and Embediment - Cannel - Type 2 Doctored Brown - Freeze Enterlandment 5,558,73 60°C Secretion and Embediment - Cannel - Type 1 Doctored Brown - Freeze 1 Secretion 5,558,73 60°C Secretion and Embediment - Cannel - Type 4 Brown - Freeze 1 Secretion - Secretion						
Scauntine and Imbariment - Channel - Type 3 Doddiesed Beream - Excavates Scient Scient S						
Earthwork - Tipp 3 Didited formers - Expand 5,556,373 6°C			Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
Cartwent Type 1 Oddied formers - Spot S. S. S. S. S. S. S. S						
Cartimotes - Type 1 Directed formers - Series		Excavation and Embankment - Channel - Type 3 Oxidized Brenna				
Carestroon and Embassioners - Channels - Type & Bornous - Start Oxfording Dennes - Series Compact and Manage Moisture Content 23,5478 Ref V						
Carestroon and Embassioners - Channels - Type & Bornous - Start Oxfording Dennes - Series Compact and Manage Moisture Content 23,5478 Ref V			Earthwork - Type 3 Oxidized Brenna - Spoil	5,549,873	BCY	
Exception and Enhancement - Channel - Type 4 Bromon - Type 4						
Cardwork - Type of Burona - Spoil Ethinoxi Type of Burona - Spoil Ethinoxi-		Excavation and Embankment - Channel - Type 4 Brenna				
Carthwork-Type & Brones-Spoil Carthwork-Type & Brones-Spoi						
Careardon and Finahamment - Chamel Earthwork - Plant From Ro-Spoil Areas Control Earthwork - Plant From Ro-Spoil Areas Control Earthwork - Plant From Ro-Spoil Areas Control						
Temporary Hay Roads		Evenuation and Embankment, Channel				
Agregate Nase - Class V - Furnish and Internal Sub Took Ministrated Sub						
Max Mode Ministreance 241		Temporary Haul Koads				
Scaration and Embashment - Counted Lower Bank Protection Stribooth - Type 1 Non-Saturated Non-Brema - Excavate and Haud 0 8 8°C						
Bigrap Excavation			Haul Road Maintenance	241	DAY	
Extraort - Type 1 Non-Statuted Non-Berena - Spoil 0 BCY					1 1	
Set		Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul			
Earthwork - Type 2 Statuted Non-Berema - Spoil 12,346 8CY			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
Earthwort. Type 2 Staurated Mone Serona - Spoil 12,346 8CY			Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
Earthwort. Type 2 Staurated Mone Serona - Spoil 12,346 8CY				12,346	BCY	
					BCY	
Earthwork-Type 3 Oxidated Brenna- Excavate 72,933 6C						
Settown						
Sarthwork - Type 3 Oudried Brema - Spoil Sarthwork - Type 3 Oudried Brema - Semi Compact and Manage Moisture Content 7,2923 8CY						
Earthwork - Type 3 Oxidized Brema - Semi Compact and Manage Moisture Content						
Sambwork-Type 4 Brenna - Escavate						
Sarthwork - Type 4 Brenna - Houl						
Earthwork - Type 4 Brenna - Spoil						
Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content 43,190 SCY						
Low Flow Channel and Lower Bank Protection Lower Bank Protection Rigrag - Furnish and Install 283,333 SY			Earthwork - Type 4 Brenna - Spoil			
Lower Bank Protection Geotextile - Furnish and Install 283,333 5Y			Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content			
Lower Bank Protection Geotextile - Furnish and Install 283,333 5Y		Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	83,111	CY	
Second S					SY	
Grade Control Geotextile - Furnish and Install 3,512 5Y						
Topsoil Placement - Channel Topsoil - Install from Stockpile 311,941 BCY		1				
Topsoil Pacement - Spoil Berm Topsoil - Install from Stockpile 2,680,432 BCY		Topsoil Placement - Channel				
Dust Control Dust Control Dust Control Dust Control Restore Local Haul Roadways - Aggregate Surfacing 9.7 Mile						
Restore Local Roadways		· · · · · · · · · · · · · · · · · · ·				
Restore Local Haul Roadways - Bituminous Surfacing 2.9 Mile						
Site Restoration Seeding 1,855 AC		nestore Local Roadways				
Straw Mulch and Disk Anchoring 1,855 AC						
Vegetation Establishment and Maintenance		Site Restoration				
Snow Removal Snow Removal Snow Removal 2,318 HOURS						
Miscellaneous Monuments and Markers 1 IS			Vegetation Establishment and Maintenance			
Diversion Channel - Region 2016 Site Preparation and Traffic Control Site Preparation and Traffic Control 1 LS		Snow Removal	Snow Removal	2,318		
Site Preparation and Traffic Control Site Preparation and Traffic Control 1 LS		Miscellaneous	Monuments and Markers	1	LS	
Site Preparation and Traffic Control Site Preparation and Traffic Control 1 LS	Diversion Channel	Region 2016				
Clearing and Grubbing Clearing and Grubbing 52 AC	Diversion Chamiler -	,	Cita Branavation and Traffic Control	1	15	
Temporary Erosion and Sedimentation Control Silt Fence - Furnish and Install 33,541 LF						
Erosion Control Blanket - Furnish and Install 51,700 SY 1 Temporary Sedimentation Basins 68,933 BCY 2 Bock Checks 72 EA 3 Dewatering and Control of Water Dewatering 146 DAY						
Temporary Sedimentation Basins 68,933 BCY		Temporary Erosion and Sedimentation Control				
Rock Checks 72 EA Dewatering and Control of Water Dewatering 146 DAY						
Rock Checks 72 EA Dewatering and Control of Water Dewatering 146 DAY			Temporary Sedimentation Basins	68,933	BCY	
Dewatering and Control of Water Dewatering 146 DAY						
		Dewatering and Control of Water				
Temporary Storm Sewer Pipe 534 LF		<u> </u>				
		+				
Control of Water		Chala and Charlette Townell, Charlet				

Construction Cost Estimate Tramewo	rk and Quantities - LPP NORTH DAKO				· · · · · · · · · · · · · · · · · · ·	
		Topsoil - Stockpile	227,696	BCY		
 	Strip and Stockpile Topsoil - Spoil Berm	Topsoil - Strip and Stockpile	607,229	BCY		<u> </u>
	Excavation and Embankment - Channel - Type 1 Non-Saturated					
 	Non-Brenna	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	881,257	BCY	ļ	ļ
 		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	881,257	BCY		-
 		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	881,257	BCY	 	
 		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCY		<u> </u>
	Excavation and Embankment - Channel - Type 2 Saturated Non- Brenna	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	1,397,536	BCY		
	Brenna		1,397,536	BCY	 	ļ
		Earthwork - Type 2 Saturated Non-Brenna - Spoil			+	ļ
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	1,397,536	BCY		ļ
 		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY		<u> </u>
	E	Santa and Tara 2 Outdood Danasa Sanasa	549,283	BCY		
 	Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	549,283	BCY		
	-	Earthwork - Type 3 Oxidized Brenna - Spoil	549,283	BCY	-	·
 			549,283	BCY	<u> </u>	
	E	Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate	0	BCY	+	
 	Excavation and Embankment - Channel - Type 4 Brenna		0	BCY	-	-
 		Earthwork - Type 4 Brenna - Haul	0	BCY		<u> </u>
		Earthwork - Type 4 Brenna - Spoil		BCY	 	
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	0		 	ļ
	Excavation and Embankment - Channel	Earthwork - Haul From No-Spoil Areas	0	BCY		-
 	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	16,711	BCY	 	
		Aggregate Base - Class V - Furnish and Install	9,400	ECY		-
		Haul Road Maintenance	67	DAY		
	Excavation and Embankment - Channel - Lower Bank Protection	Continued Total No. Command No. Command No.		DCV		
	Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY		-
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	 	1
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	 	1
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	9,353	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	9,353	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	9,353	BCY		
		Earthwork - Type 3 Oxidized Brenna - Excavate	26,164	BCY		
		Earthwork - Type 3 Oxidized Brenna - Haul	26,164	BCY	ļ	
		Earthwork - Type 3 Oxidized Brenna - Spoil	26,164	BCY		
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	26,164	BCY		
 		Earthwork - Type 4 Brenna - Excavate	0	BCY		
 		Earthwork - Type 4 Brenna - Haul	0	BCY		
		Earthwork - Type 4 Brenna - Spoil	0	BCY		
		Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY		
 	Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	22,978	CY		
		Lower Bank Protection Geotextile - Furnish and Install	78,333	SY		
		Grade Control Riprap - Furnish and Install	1,078	CY		
 		Grade Control Geotextile - Furnish and Install	971	SY		ļ
 	Topsoil Placement - Channel	Topsoil - Install from Stockpile	75,899	BCY		
 	Topsoil Placement - Spoil Berm	Topsoil - Install from Stockpile	759,026	BCY		ļ
	Dust Control	Dust Control	180	DAY		
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	2.7	Mile		ļ
		Restore Local Haul Roadways - Bituminous Surfacing	0.8	Mile		
	Site Restoration	Seeding	517	AC		1
		Straw Mulch and Disk Anchoring	517	AC	ļ	1
		Vegetation Establishment and Maintenance	517	AC		
	Snow Removal	Vegetation Establishment and Maintenance Snow Removal		AC HOURS		
	Snow Removal Miscellaneous	Vegetation Establishment and Maintenance	517	AC		
Diversion Channe	Miscellaneous	Vegetation Establishment and Maintenance Snow Removal	517 641	AC HOURS		
Diversion Channel	Miscellaneous	Vegetation Establishment and Maintenance Snow Removal	517 641	AC HOURS		
Diversion Channel	Miscellaneous - Region 2017 Site Preparation and Traffic Control	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control	517 641 1	AC HOURS LS		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers	517 641 1	AC HOURS LS		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing	517 641 1 1 247 160,687	AC HOURS LS LS AC LF		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install	517 641 1 1 247	AC HOURS LS LS		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Pence - Furnish and Install	517 641 1 1 247 160,687 247,683 329,067	AC HOURS LS LS AC LF SY		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbling Temporary Erosion and Sedimentation Control	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks	517 641 1 1 247 160,687 247,683 329,067 345	AC HOURS LS LS AC LF SY BCY EA		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Slit Fence - Furnish and Install Fersion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering	517 641 1 1 247 160,687 247,683 329,067 345 697	AC HOURS LS LS AC LF SY BCY EA DAY		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbling Temporary Erosion and Sedimentation Control	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559	AC HOURS LS LS AC LF SY BCY EA DAY LF		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Pence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559	AC HOURS LS LS AC LF SY BCY EA DAY LF LS		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbling Temporary Erosion and Sedimentation Control	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Pence - Furnish and Install Ternjorany Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Control of Water	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559 1 1,460,107	AC HOURS LS LS AC LF SY BCY EA DAY LF LS BCY ES BCY EA DAY LF LS BCY		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion South Control Blanket - Furnish and Install Erosion South Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Stotciplie	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559 1 1,460,107 1,460,107	AC HOURS LS LS AC LIF SY BCY EA DAY LF LIS BCY BCY BCY BCY		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoll - Channel Strip and Stockpile Topsoll - Spoll Berm	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Pence - Furnish and Install Ternjorany Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Control of Water	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559 1 1,460,107	AC HOURS LS LS AC LF SY BCY EA DAY LF LS BCY ES BCY EA DAY LF LS BCY		
Diversion Channe	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip and Stockpile Topsoil - Strip and Stockpile	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559 1 1,460,107 1,460,107 2,520,332	AC HOURS LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY		
Diversion Channel	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoll - Channel Strip and Stockpile Topsoll - Spoll Berm	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Ence - Furnish and Install Erosino Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559 1 1,460,107 1,460,107 2,520,332 5,204,698	AC HOURS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY	Haul from DC to S&1	
Diversion Channel	Miscellaneous - Region 2017 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated	Vegetation Establishment and Maintenance Snow Removal Monuments and Markers Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip and Stockpile Topsoil - Strip and Stockpile	517 641 1 1 247 160,687 247,683 329,067 345 697 2,559 1 1,460,107 1,460,107 2,520,332	AC HOURS LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY	Haul from DC to SA1 Haul from DC to SA1	

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Section Sect		İ	PCV	E 40E 193	Earthwork Tune 2 Caturated Non Bronne, Evenuete and Haul	Excavation and Embankment - Channel - Type 2 Saturated Non-	
Company Comp		Haul from DC to SA1				Diellid	
Comment Comment Comment Top Total of forms Top Comment Top C							
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Instruction			BCY	9,472,267	Earthwork - Type 3 Oxidized Brenna - Excavate	Excavation and Embankment - Channel - Type 3 Oxidized Brenna	
Instruction of Enhanced Council Type 4 Services Ser			BCY	9,472,267			
Exception and Considerance Counterd. Speed Services. Exception of Considerance Counterd. Speed Services. 1 1,846-472 1,877 1,878 1,8			BCY	9,472,267	Earthwork - Type 3 Oxidized Brenna - Spoil		
Exception and Considerance Counterd. Speed Services. Exception of Considerance Counterd. Speed Services. 1 1,846-472 1,877 1,878 1,8			BCY	9,472,267	Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content		
Secretary and productions Secretary			BCY	3,404,472		Excavation and Embankment - Channel - Type 4 Brenna	
Carbon Capacition and Columniant Columnial Carbon Capacition and Columniant Columnial Carbon Capacition and Columniant Columnial Capacition and Capac			BCY	3,404,472			
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Emproyer year year year. Face New Fundament F			BCY	3,404,472	Earthwork - Type 4 Brenna - Compact and Manage Moisture Content		
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Expectation and Embourhance Council Loan's Bank Protection Figure (Incomplete) Figure (Inco			BCY	80,059	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	Temporary Haul Roads	
Concrete on an of index-invest Counted - Lever Bash Protection Special beautism. Carlmonds Tags 1 Non-Chancel Annie 1 Non							
Image: Proceedings			DAY	320	Haul Road Maintenance		
Institution - Tighe 1 National Activities Institution - Section (Control of Manage Motioner Content) 0							
Carrieven Type Roos Stantate Roos devices _ rest Compet and Manage Molitation Contents 0 0 0 0 0 0 0 0 0				0		Riprap Excavation	
Internation - Topic 2 Statement from Service - Excavate and though of the Committee - Comm		ļ					
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Grade Control General Channel 4,652 57 1 1 1 1 1 1 1 1 1		 					
Topool Flacement - Channel Topool - Install from Sociable 486,733 807							
Topolal Placement - Spoil Berm		1				Toncoil Blacoment Channel	
Dest Control Dest Control Restore Local Houle Roadways - Reprocessed Surfacing 12.8 Mile							
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Ste Pestroration Seding 2,468 AC		 					
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Diversion Channel - Region 2018 Site Preparation and Traffic Control Site Preparation and Site Preparation and Traffic Control Site Preparation and Site Preparation Site Preparation And Site Preparation An						Snow Removal	
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Site Preparation and Traffic Control 1 1 1 1 1 1 1 1 1				<u> </u>			
Clearing and Grubbing			4	1			
Temporary Erosion and Sedimentation Control							
Ersion Control Blanket - Furnish and Install 53,717 57 57 57 57 57 57 57		+					
Temporary Sedimentation Basins 17,067 8CY		 				Temporary Erosion and Sedimentation Control	
Rock Checks		1					
Dewatering and Control of Water Dewatering 35 DAY		+					
Temporary Storm Sewer Pipe 555 LF Control of Water 1 LS Strip and Stockpile Topsoil - Channel 70psoil - Strip 1 Strip and Stockpile Topsoil - Strip and Stockpile 156,731 BCY Strip and Stockpile Topsoil - Spoil Berm 70psoil - Strip and Stockpile 156,731 BCY Strip and Stockpile 70psoil - Strip and Stockpile 50,527 BCY Strip and Embankment - Channel - Type 1 Non-Saturated Non-Brenna - Excavate and Haul 538,140 BCY Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna - Spoil 538,140 BCY Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,140 BCY Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna - Levee Embankment Content 538,140 BCY Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna - Levee Embankment 50 BCY Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment 50 BCY Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul 538,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,002 BCY Excavation and Embankment - Channel - Type 3 Oxidized Brenna - Levee Embankment 0 0 BCY		+				Dewatering and Control of Water	
Control of Water						Dewatering and control of water	
Strip and Stockpile Topsoil - Channel Topsoil - Strip Topsoil - Topsoi		1					
Topsoil - Stockpile 156,731 8CY		 				Strip and Stockpile Topsoil - Channel	
Strip and Stockpile Topsoil - Spoil Berm Topsoil - Strip and Stockpile 50,527 BCY		†				Strip and Stockpile Topson - Channel	
Exavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna - Excavate and Haul 538,140 BCY Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil 538,140 BCY Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil 538,140 BCY Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,140 BCY Exavation and Embankment - Channel - Type 2 Saturated Non-Brenna - Levee Embankment O BCY Exavation and Embankment - Channel - Type 2 Saturated Non-Brenna - Levee Embankment D Saturated Non-Brenna - Exavate and Haul Saturated Non-Brenna - Semi Compact and Manage Moisture Content Saturated Non-Brenna - Exavated Non-Brenna - Semi Compact and Manage Moisture Content Saturated Non-Brenna - Semi Compact and Manage Moisture Content Saturated Non-Brenna - Exavated Non-Brenna - Semi Compact and Manage Moisture Content Saturated Non-Brenna - Exavated Non-Brenna - Semi Compact and Manage Moisture Content Saturated Non-Brenna - Exavated Non-Brenna - Exavate Non-Brenna - Exavated Non-Brenna - Exavated Non-Brenna - Exavate Non-Brenna - Exavated Non-Brenna - Exavate N		1				Strip and Stockpile Tonsoil - Spoil Rerm	
Non-Brenna Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul 538,140 BCY		1	150.	30,32.			
Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil 538,140 9CY		1	BCY	538,140	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul		
Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content 538,140 BCY Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna - Levee Embankment		T				<u> </u>	
Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment 0 BCY Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna - Excavate and Haul 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Spoil 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Spoil 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Spoil 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Embankment 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment 253,002 BCY Excavation and Embankment - Channel - Type 3 Oxidized Brenna - Excavate Non-Brenna - Excavate Scalar - Excavate Scal							
Excavation and Embankment - Channel - Type 2 Saturated Non- Brenna Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment 0 BCY Excavation and Embankment - Channel - Type 3 Oxidized Brenna - Earthwork - Type 3 Oxidized Brenna - Excavate 289,488 BCY							
Brenna Earthwork - Type 2 Saturated Non-Brenna - Exavate and Haul 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Content 0 CONTENT OF CONTENT				1		Excavation and Embankment - Channel - Type 2 Saturated Non-	
Earthwork - Type 2 Saturated Non-Brenna - Spoil 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment 0 BCY Excavation and Embankment - Channel - Type 3 Oxidized Brenna - Earthwork - Type 3 Oxidized Brenna - Excavate 289,488 BCY			BCY	253,002	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul		
Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 253,002 BCY Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment 0 BCY Excavation and Embankment - Channel - Type 3 Oxidized Brenna - Earthwork - Type 3 Oxidized Brenna - Excavate 289,488 BCY			BCY	253,002			
Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment 0 BCY Excavation and Embankment - Channel - Type 3 Oxidized Brenna - Earthwork - Type 3 Oxidized Brenna - Excavate 289,488 BCY							
Excavation and Embankment - Channel - Type 3 Oxidized Brenna Earthwork - Type 3 Oxidized Brenna - Excavate 289,488 BCY							
					Earthwork - Type 3 Oxidized Brenna - Excavate	Excavation and Embankment - Channel - Type 3 Oxidized Brenna	
Leathern Type 3 Oxfolized Dictilia - Hadi 200,400 BC1			BCY	289,488	Earthwork - Type 3 Oxidized Brenna - Haul		

 Construction Cost Estimate Fram 						
		Earthwork - Type 3 Oxidized Brenna - Spoil	289,488	BCY		
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	289,488	BCY		
	Excavation and Embankment - Channel - Type 4 Brenna	Earthwork - Type 4 Brenna - Excavate	0	BCY		
		Earthwork - Type 4 Brenna - Haul	0	BCY		
		Earthwork - Type 4 Brenna - Spoil	0	BCY		
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	0	BCY		
	Excavation and Embankment - Channel	Earthwork - Haul From No-Spoil Areas	0	BCY		
	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	17,363	BCY		
	Temporary Hadri Noads	Aggregate Base - Class V - Furnish and Install	9,767	ECY	+	
		Haul Road Maintenance	69	DAY	+	
	Excavation and Embankment - Channel - Lower Bank Protection	Tradi Nodo Waliteriance	05	DAI		
	Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	428	BCY		
	Impray Excavation	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	428	BCY	 	
			428	BCY	+	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	3,703	BCY	+	
 		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul			· · · · · · · · · · · · · · · · · · ·	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	3,703	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	3,703	BCY		
		Earthwork - Type 3 Oxidized Brenna - Excavate	908	BCY		
		Earthwork - Type 3 Oxidized Brenna - Haul	908	BCY		
		Earthwork - Type 3 Oxidized Brenna - Spoil	908	BCY		
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	908	BCY		
		Earthwork - Type 4 Brenna - Excavate	0	BCY		
		Earthwork - Type 4 Brenna - Haul	0	BCY		
		Earthwork - Type 4 Brenna - Spoil	0	BCY		
		Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY		
	Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	23,874	CY		
		Lower Bank Protection Geotextile - Furnish and Install	81,389	SY	T	
		Grade Control Riprap - Furnish and Install	1,120	CY		
		Grade Control Geotextile - Furnish and Install	1,009	SY		
	Topsoil Placement - Channel	Topsoil - Install from Stockpile	52,244	BCY	1	
	Topsoil Placement - Spoil Berm	Topsoil - Install from Stockpile	58.838	BCY	<u> </u>	
	Dust Control	Dust Control	187	DAY	+	
	Restore Local Roadways		2.8	Mile	+	
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing	0.8	Mile	-	
	dia no di				+	
	Site Restoration	Seeding	128	AC	+	
		Straw Mulch and Disk Anchoring	128	AC		
		Vegetation Establishment and Maintenance	128	AC	 	
 	Snow Removal	Snow Removal	666			
				HOURS		
	Miscellaneous	Monuments and Markers	1	LS		
		Monuments and Markers				
Diversion Ch	Miscellaneous	Monuments and Markers				
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019	Monuments and Markers ofing				
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control	Monuments and Markers Ofing Site Preparation and Traffic Control	1	LS		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing	Monuments and Markers ofing Site Preparation and Traffic Control Clearing and Grubbing	1 1 16	LS LS AC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install	1 1 16 19,506	LS LS AC LF		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install	1 1 16 19,506 30,067	LS LS AC LF SY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and Install Terosion Control Blanket - Furnish and Install Temporary Sedimentation Basins	1 1 16 19,506 30,067 20,933	LS AC LF SY BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks	1 1 16 19,506 30,067 20,933 42	LS AC LF SY BCY EA		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering	1 1 16 19,506 30,067 20,933 42 44	LS AC LF SY BCY EA DAY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe	1 1 16 19,506 30,067 20,933 42 44 311	LS AC LF SY BCY EA DAY LF		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water	1 16 19,506 30,067 20,933 42 44 311	LS AC LF SY BCY EA DAY LF LS		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479	LS AC LF SY BCY EA DAY LF LS BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and install Erosion Control Blanket - Furnish and install Erosion Store Search Store Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Storip Topsoil - Storip	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479 100,479	LS AC LF SY BCY EA DAY LF LS BCY BCY BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berrm	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479	LS AC LF SY BCY EA DAY LF LS BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Schriebenetation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip Topsoil - Strip Topsoil - Strip Topsoil - Strip	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479 100,479 153,638	LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berrm	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoll - Strip Topsoll - Strip Topsoll - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	1 16 19,506 30,067 20,933 42 44 311 1 100,479 103,638 100,000	LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Emporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Storkpil Topsoil - Storkpile Topsoil - Strip and Stockpile Topsoil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479 100,479 153,638 100,000 0	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY	100,000CY to tieback levee	
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and install Erosion Control Blanket - Furnish and install Erosion Store Step -	1 1 16 19,506 30,067 20,933 42 44 44 311 1 100,479 100,479 153,638 100,000 0	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC	100,000CY to tieback levee	
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Emporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Storkpil Topsoil - Storkpile Topsoil - Strip and Stockpile Topsoil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479 100,479 153,638 100,000 0	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY	100,000CY to tieback levee	
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Storkple Topsoil - Stockplie Topsoil - Stockplie Topsoil - Stockplie Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	1 16 19,506 30,067 20,933 42 44 311 1 100,479 103,638 100,000 0 0 0	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC	100,000CY to tieback levee	
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip Topsoil - Strip Topsoil - Strokpile Topsoil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	1 16 19,506 30,067 20,933 42 44 311 1 100,479 103,638 100,000 0 0 0 30,605	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Hence - Furnish and Install Erosino Control Blanket - Furnish and Install Remporary Stemmentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Toppsoll - Stork pile Topsoll - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	1 1 16 19,506 30,067 20,933 42 44 3311 1 100,479 100,479 153,638 100,000 0 0 0 30,605 30,605	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC	100,000CY to tieback levee 142,000CY to Levee 2019	
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip Topsoil - Strip Topsoil - Strokpile Topsoil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	1 1 16 19,506 30,067 20,933 42 44 44 311 1 100,479 153,638 100,000 0 0 30,605 30,605	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-	Monuments and Markers Offing Site Preparation and Traffic Control Clearing and Grubbing Sit Hence - Furnish and Install Erosino Control Blanket - Furnish and Install Remporary Stemmentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Toppsoll - Stork pile Topsoll - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	1 1 16 19,506 30,067 20,933 42 44 3311 1 100,479 100,479 153,638 100,000 0 0 0 30,605 30,605	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and Install Temporary Stedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Stotic Pipe Topsoil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content	1 15 16 19,506 30,067 20,933 42 44 44 311 1 100,479 153,638 100,000 0 0 0 30,605 30,605 0 0	LS AC LIF SY BCY EA DAY LIF BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and install Erosion Control Blanket - Furnish and install Erosion Control Blanket - Furnish and install Erosion Store Sewer Pipe Control of Water Temporary Storm Sewer Pipe Control of Water Topsoil - Storip Topsoil - Storip Topsoil - Storip Topsoil - Storkpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil	1 1 16 19,506 30,067 20,933 42 44 44 311 1 100,479 153,638 100,000 0 0 30,605 30,605	LS LS AC LF SY BCY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and Install Temporary Stedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Stotic Pipe Topsoil - Stotic Pipe Topsoil - Stotipl Topsoil - Stotipl Topsoil - Stotipl Topsoil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Compact and Manage Moisture Content	1 15 16 19,506 30,067 20,933 42 44 44 311 1 100,479 153,638 100,000 0 0 0 30,605 30,605 0 0	LS AC LIF SY BCY EA DAY LIF BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Site Free-paration and Traffic Control Clearing and Grubbing Site Free-Paratish and install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip Topsoil - Strip Topsoil - Strip Topsoil - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact	1 1 16 19,506 30,067 20,933 42 44 44 311 1 100,479 153,638 100,000 0 0 30,605 30,605 30,605 0 115,140	LS LS AC LF SY BCY EA BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and install Erosion Control Blanket - Furnish and install Erosion Control Blanket - Furnish and install Erosion Control Blanket - Furnish and install Erosion Store Sewer Pipe Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoil - Strip Topsoil - Strip Topsoil - Stropile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Exemi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Saturated Non-Brenna - Exemi Compact and Manage Moisture Content Earthwork - Type 3 Saturated Non-Brenna - Exemi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	1 1 16 19,506 30,067 20,933 42 44 44 311 1 100,479 153,638 100,000 0 0 30,605 30,605 0 115,140 115,140	LS LS AC LF SY BCY EA BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Channel Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Emporary Sedimentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topsoll - Stork pl Topsoll - Stork pl Topsoll - Stork pl Topsoll - Strip and Stockpile Topsoll - Strip and Stockpile Topsoll - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	1 11 16 19,506 30,067 20,933 42 44 4311 1 100,479 100,479 153,638 100,000 0 0 0 30,605 30,605 30,605 30,605 115,140 115,140 115,140	LS LS AC LIF SY BCY EA BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Spoil Berm Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	Monuments and Markers Office of the preparation and Traffic Control Clearing and Grubbing Stiff Encer - Furnish and install Erosion Control Blanket - Furnish and Install Erosion Control Glanket - Furnish and Install Erosion Control Glanket - Furnish and Install Erosion Control Glanket - Furnish and Install Erosion Control of Water Topposil - Stockpile Control of Water Topposil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Mana	1 16 19,506 30,067 20,933 42 44 44 311 1 100,479 103,638 100,000 0 0 0 30,605 30,605 30,605 0 115,140 115,140 115,140 115,140	LS AC LF SY EA DAY LF BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Channel Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Site Free Parish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Store	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479 153,638 100,000 0 0 30,605 30,605 30,605 0 115,140 115,140 115,140 0	LS AC LF SY BCY BCY BCY BCY BCY BCY BCY		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Channel Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Monuments and Markers Offig Site Preparation and Traffic Control Clearing and Grubbing Sit Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Stemmentation Basins Rock Checks Dewatering Temporary Storm Sewer Pipe Control of Water Topposil - Stork pile Topposil - Strip and Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate	1 1 16 19,506 30,067 20,933 42 44 44 3311 1 100,479 103,79 103,79 103,605 0 0 0 0 115,140 115,140 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LS LS AC LIF SY EA DAY LF LS BCY BCY BCY BCY BCY BCY BCY BC		
Diversion Ch	Miscellaneous Note: Quantities for Levee included under 11 Levees and Floodpro annel - Region 2019 Site Preparation and Traffic Control Clearing and Grubbing Temporary Erosion and Sedimentation Control Dewatering and Control of Water Strip and Stockpile Topsoil - Channel Strip and Stockpile Topsoil - Channel Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna Excavation and Embankment - Channel - Type 3 Oxidized Brenna	Monuments and Markers Ofing Site Preparation and Traffic Control Clearing and Grubbing Site Free Parish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Control Blanket - Furnish and Install Erosion Store	1 1 16 19,506 30,067 20,933 42 44 311 1 100,479 153,638 100,000 0 0 30,605 30,605 30,605 0 115,140 115,140 115,140 0	LS AC LF SY BCY BCY BCY BCY BCY BCY BCY		

Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	9.719	BCY	
Temporary rada roddo	Aggregate Base - Class V - Furnish and Install	5.467	ECY	I
	Haul Road Maintenance	39	DAY	г
 Excavation and Embankment - Channel - Lower Bank Protection	naui koad Maintenance	39	DAY	
 	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	ı
Riprap Excavation		0	BCY	Γ
 	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0		· · · · · · · · · · · · · · · · · · ·
	Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	h
	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	279	BCY	h
	Earthwork - Type 2 Saturated Non-Brenna - Spoil	279	BCY	L
	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	279	BCY	
	Earthwork - Type 3 Oxidized Brenna - Excavate	20,376	BCY	
	Earthwork - Type 3 Oxidized Brenna - Haul	20,376	BCY	L
	Earthwork - Type 3 Oxidized Brenna - Spoil	20,376	BCY	ı
	Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	20,376	BCY	l
	Earthwork - Type 4 Brenna - Excavate	0	BCY	1
	Earthwork - Type 4 Brenna - Haul	0	BCY	1
	Earthwork - Type 4 Brenna - Spoil	0	BCY	
	Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY	
Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	13,363	CY	I
	Lower Bank Protection Geotextile - Furnish and Install	45,556	SY	I
	Grade Control Riprap - Furnish and Install	627	CY	1
	Grade Control Geotextile - Furnish and Install	565	SY	
Topsoil Placement - Channel	Topsoil - Install from Stockpile	33,493	BCY	I
Topsoil Placement - Spoil Berm	Topsoil - Install from Stockpile	220.624	BCY	1
	Dust Control	105	DAY	I
Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	1.6	Mile	
,	Restore Local Haul Roadways - Bituminous Surfacing	0.5	Mile	I
Site Restoration	Seeding	157	AC	I
	Straw Mulch and Disk Anchoring	157	AC	i
	Vegetation Establishment and Maintenance	157	AC	I
Snow Removal	Snow Removal	373	HOURS	I
	Monuments and Markers	1	LS	i
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 IMSCHOROOS				
Hydraulic Structure - Red River Control Structure - Site Work				
 Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
 Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	15,000	LF	
	Erosion Control Blanket - Furnish and Install	38,720	SY	
	Temporary Sedimentation Basins	10,667	BCY	
	Floating Silt Curtain	600	LF	
Clearing and Grubbing	Clearing and Grubbing	35	AC	
Strip and Stockpile Topsoil	Topsoil - Strip	121,133	BCY	
	Topsoil - Stockpile	121,133	BCY	
Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,267	BCY	
	Aggregate Base - Class V - Furnish and Install	7,120	ECY	
	Haul Road Maintenance	60	DAY	
Coffering - Steel Sheet pile	Sheet Piling - Furnish Material	9,000	SF	
	Sheet Piling - Unload Sheeting	7	EA	
	Sheet Piling - Set up Rig	2	EA	
	Sheet Piling - Drive Sheets	200	EA	
	Sheet Piling - Cut Sheets	400	EA	
	Control of Water	1	LS	
Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	3,768	BCY	
	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	3,768	BCY	
	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	3,768	BCY	
	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	3,768	BCY	
Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	643,955	BCY	
Except and Emparation Character Constitution	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	643,955	BCY	
	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	101,904	BCY	
	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	542,051	BCY	
	Lattiwork - Type 1 Non-Saturated Non-Breiling - Levee Embankment	542,031	- BCI	
	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	464,000	BCY	
	Earthwork - Type 2 Saturated Non-Brenna - Spoil	464,000	BCY	
	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	464,000	BCY	
	Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
	Earthwork - Type 3 Oxidized Brenna - Excavate	137,000	BCY	
	Earthwork - Type 3 Oxidized Brenna - Haul	137,000	BCY	
	Earthwork - Type 3 Oxidized Brenna - Spoil	137,000	BCY	
	Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	137,000	BCY	
	Frankrich Trans A Danner Frankrich	0	BCY	
	Earthwork - Type 4 Brenna - Excavate	0		
 	Earthwork - Type 4 Brenna - Haul		BCY	
	Earthwork - Type 4 Brenna - Spoil	0	BCY	

			k and Quantities - LFF NORTH DAKO		,		.,
				Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	0	BCY	
							
				Earthwork - Haul From No-Spoil Areas	121,133	BCY	
			Dewatering and Control of Water	Dewatering and Control of Water	50	DAY	
				Temporary Storm Sewer Pipe	300	LF	
				Control of Water	1	LS	
			Electrical Utilities	Electrical Utilities	5,000	LF	
			Channel Grade Control System		0	LS	
				Channel Grade Control System			
			Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	2.0	Mile	<u> </u>
				Restore Local Haul Roadways - Bituminous Surfacing	1.0	Mile	
			Dust Control	Dust Control	60	DAY	
			Topsoil Placement	Topsoil - Install from Stockpile	121,133	BCY	
			Site Restoration	Seeding	80	AC	
			Site Restoration				
				Straw Mulch and Disk Anchoring	80	AC	
				Vegetation Establishment and Maintenance	80	AC	
			Miscellaneous Features	Signage	1	LS	
				Chain link Fence	3,000	LF	
				Fence Vehicle Gates	4	EA	
			Snow Removal	Snow Removal	640	HOURS	
1			Excavation and Embankment - Channel - Lower Bank Protection				
I			Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	
				Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
l				Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	†
L							
<u> </u>				Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	0	BCY	
				Earthwork - Type 2 Saturated Non-Brenna - Spoil	0	BCY	
				Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
				Earthwork - Type 3 Oxidized Brenna - Excavate	3.071	BCY	
				Earthwork - Type 3 Oxidized Brenna - Haul	3,071	BCY	† · · · · · · · · · · · · · · · · · · ·
				Earthwork - Type 3 Oxidized Brenna - Spoil	3,071	BCY	
				Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	3,071	BCY	
				Earthwork - Type 4 Brenna - Excavate	0	BCY	
				Earthwork - Type 4 Brenna - Haul	0	BCY	
				Earthwork - Type 4 Brenna - Spoil	0	BCY	
				Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY	
İ			Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	2,933	CY	
				Lower Bank Protection Geotextile - Furnish and Install	10,000	SY	
					138		
1				Grade Control Riprap - Furnish and Install		CY	
<u> </u>				Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install	124	SY	
		Hydraulic Structure - F	Red River Control Structure - Structure		124	SY	IN Control Structure
		Hydraulic Structure - F	Red River Control Structure - Structure Earthwork - Structural		124	SY	N Control Structure
		Hydraulic Structure - F		Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation	use MN subcontr 49,809	SY actors for RR BCY	IN Control Structure
		Hydraulic Structure - F		Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul	124 use MN subconta 49,809 49,809	SY actors for RR BCY BCY	N Control Structure
		Hydraulic Structure - F	Earthwork - Structural	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment	124 use MN subconti 49,809 49,809 49,809	SY actors for RR BCY BCY BCY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment structure lengtl	124 use MN subconti 49,809 49,809 49,809 182	SY actors for RR BCY BCY BCY LF	N Control Structure
		Hydraulic Structure - F	Earthwork - Structural	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment	124 use MN subconti 49,809 49,809 49,809	SY actors for RR BCY BCY BCY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment structure lengtl	124 use MN subconti 49,809 49,809 49,809 182	SY actors for RR BCY BCY BCY LF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Fur Rig	124 use MN subcontr 49,809 49,809 49,809 182 11,037 2	SY Cactors for RR BCY BCY BCY LF LF EA	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Sterlies - Furnish Material Steel Piles - Furnish Material Steel Piles - Structural Haul Steel Piles - Structural Haul	124 use MN subcontr 49,809 49,809 49,809 182 11,037 2	BCY BCY LF LF EA EA	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Weld Splices	124 use MN subcontr 49,809 49,809 49,809 11,037 2 21 80	BCY BCY LF LF EA EA	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Eup Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Velload Splices Steel Piles - Velload Splices	124 use MN subconti 49,809 49,809 182 11,037 2 21 80 11,037	SY actors for RR BCY BCY BCY LF LF EA EA LF LF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Structural Haul Steel Piles - Weld Splices Steel Piles - Weld Splices Steel Piles - Drive Piling Steel Piles - Cut Offs	124 use MN subcontr 49,809 49,809 49,809 11,037 2 21 80	SY actors for RR BCY BCY BCY LF LF EA EA LF EA LF EA	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Eup Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Velload Splices Steel Piles - Velload Splices	124 use MN subconti 49,809 49,809 182 11,037 2 21 80 11,037	SY actors for RR BCY BCY BCY LF LF EA EA LF LF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling	124 use MN subconts 49,809 49,809 49,809 1182 11,037 2 2 21 80 11,037 318 8	SY actors for RR BCY BCY BCY LF LF EA EA LF EA LF EA LF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Eut pilg Steel Piles - Eut pilg Steel Piles - Unload Piles Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Verlo Piling Steel Piles - Cut Offs Steel Piles - Fore Piling Steel Piles - Fore Piling Steel Piles - Cut Offs Steel Piles - Fore Piles - Cut Offs Steel Piles - Fore Piles - Cut Offs	124 use MN subconti 49,809 49,809 49,809 111,037 2 21 80 11,037 318 8 1,793	SY BCY BCY BCY LF LF EA EA LF EA EA SF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Steel up Rig Steel Piles - Wold Splices Steel Piles - Wold Splices Steel Piles - Wold Splices Steel Piles - Wold Splices Steel Piles - Drive Pilinig Steel Piles - Cut Offs Steel Piles - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Four	124 use MN subconti 49,809 49,809 182 11,037 2,21 80 11,037 318 8 11,793 2,273	SY actors for RF BCY BCY BCY BCY LF LF EA EA EA LF EA EA CF EA SF CY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Piln Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Four Concrete - Footing - Steel Piles - Steel Piles - Steel Test Concrete - Footing - Four Steel Piles - Pile Test Concrete - Footing - Four Strip and Cure Concrete - Footing - Steel Piles - Steel Piles - P	124 use MN subconti 49,809 49,809 49,809 11,037 2 11,037 318 80 11,037 318 8 1,793 2,273	SY actors for RP BCY BCY BCY LF EA EA EA LF EA CF EA CF CY CY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Funish Material Steel Piles - Funish Material Steel Piles - Funish August - Structural Piles Steel Piles - Funish - Structural Piles Steel Piles - Funish - Piles Steel Piles - Venish Piles Steel Piles - Funish - Piles Steel Piles - Funish - Piles Steel Piles - Funish - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles - Piles Steel Piles - Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles Steel Piles - Piles Steel Piles - Piles - Piles Steel Piles - Piles	124 use MN subconti 49,809 49,809 49,809 1182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,5560	SY actors for RP BCY BCY BCY LF EA EA LF EA CA EA CY CY SF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Piln Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Four Concrete - Footing - Steel Piles - Steel Piles - Steel Test Concrete - Footing - Four Steel Piles - Pile Test Concrete - Footing - Four Strip and Cure Concrete - Footing - Steel Piles - Steel Piles - P	124 use MN subconti 49,809 49,809 49,809 11,037 2 11,037 318 80 11,037 318 8 1,793 2,273	SY actors for RP BCY BCY BCY LF EA EA EA LF EA CF EA CF CY CY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Ut Offs Steel Piles - Drive Piling Steel Piles - Drive Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Pour Concrete - Piles - S% Waste Concrete - Piles - Assemble and Modify Forms	124 use MN subconti 49,809 49,809 182 11,037 2 180 11,037 318 8 1,793 2,273 114 2,560 4	SY actors for RP BCY BCY BCY LF EA EA LF EA CA EA CY CY SF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Eut pilg Steel Piles - Steu pilg Steel Piles - Steu pilg Steel Piles - Unload Piles Steel Piles - Verive Piling Steel Piles - Verive Piling Steel Piles - Verive Piling Steel Piles - Piles - Pile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Sw Waste Concrete - Pier - Build Forms Concrete - Pier - Build Forms Concrete - Pier - Form, Strip and Cure	124 use MN subcont 49,809 49,809 49,809 182 11,037 2 2 11,037 318 8 1,793 2,273 114 2,560 4 37,007	SY actors for RB BCY BCY BCY LF EA EA LF EA CA CY CY SF CY SF EA SF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Steel Piles - Steel Piles - Steel Piles - Steel Piles - Wilnolad Piles Steel Piles - Wilnolad Piles Steel Piles - Drive Piling Steel Piles - Cut Offs Steel Piles - Cut Offs Steel Piles - Fout Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Sw Waste Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure	124 use MN subconti 49,809 49,809 49,809 11,037 2 21 80 11,037 318 8 11,793 2,273 114 2,560 4 37,007 3,759	SY actors for RR BCY BCY BCY LF LF EA EA CA CY CY SF EA CY CY SF CY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Concrete - Footing - Form Strip and Cure Concrete - Footing - Fow Strip and Cure Concrete - Pier - Build Forms Concrete - Pier - Build Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure	124 use MN subconti 49,809 49,809 49,809 1182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,566 4 4 37,007 3,759 1188	SY actors for RB BCY BCY BCY BCY LF EA EA LF EA CY CY CY CY CY CY CY CY CY CY CY CY CY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment stee Piles - Furnish Material Steed Piles - Furnish Material Steed Piles - Vulnoad Piles Steel Piles - Unioad Piles Steel Piles - Vire Piling Steel Piles - Vire Piling Steel Piles - Vire Piling Steel Piles - Out Offs Steel Piles - Out Offs Steel Piles - Fore Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Pier - Build Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Viles - Pier - Pour Concrete - Viles - Pier - Pour Concrete - Viles - Pier - Pour Concrete - Pier - Form, Strip and Cure	124 use MN subconts 49,809 49,809 49,809 1182 11,037 2 21 80 11,037 318 8 1,793 2,273 1114 2,560 4 37,007 3,759 188 2,689 9	SY BCY BCY BCY BCY LF LF EA EA CA EA CY CY CY SF	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Steel Piles - Drive Pilning Concrete - Footing - Form Strip and Cure Concrete - Footing - Fow Strip and Cure Concrete - Pier - Build Forms Concrete - Pier - Build Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure	124 use MN subconti 49,809 49,809 49,809 1182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,566 4 4 37,007 3,759 1188	SY actors for RB BCY BCY BCY BCY LF EA EA LF EA CY CY CY CY CY CY CY CY CY CY CY CY CY	
		Hydraulic Structure - F	Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment stee Piles - Furnish Material Steed Piles - Furnish Material Steed Piles - Vulnoad Piles Steel Piles - Unioad Piles Steel Piles - Vire Piling Steel Piles - Vire Piling Steel Piles - Vire Piling Steel Piles - Out Offs Steel Piles - Out Offs Steel Piles - Fore Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Pier - Build Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Viles - Pier - Pour Concrete - Viles - Pier - Pour Concrete - Viles - Pier - Pour Concrete - Pier - Form, Strip and Cure	124 use MN subconts 49,809 49,809 49,809 1182 11,037 2 21 80 11,037 318 8 1,793 2,273 1114 2,560 4 37,007 3,759 188 2,689 9	SY BCY BCY BCY BCY LF LF EA EA CA EA CY CY CY SF	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Orive Piling Steel Piles - Orive Piling Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Control Steel Piles - Pile Test Concrete - Footing - Form Strip and Cure Concrete - Piles - Pour Gonzel - Piles - Pour Strip and Gure Concrete - Piler - Pour Strip and Gure Concrete - Piler - Pour Strip and Gure Concrete - Piler - Pour Strip and Gure Concrete - Piles - Pour Strip and Gure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Four Strip and Cure Concrete - Elevated Deck - Four Strip and Cure Concrete - Elevated Deck - Four Strip and Cure Concrete - Elevated Deck - Four Strip and Cure Concrete - Elevated Deck - Four Strip and Cure	124 use MN subcont 49,809 49,809 49,809 1182 11,037 2 2 11 80 11,037 318 8 1,793 2,273 114 2,560 4 37,007 3,759 188 2,689 128 6	SY BCY BCY BCY BCY LF LF EA EA CA SF CY CY CY CY CY CY CY CY CY CY CY CY CY	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Velloga Piles - Set up Rig Steel Piles - Velloga Piles - Set up Rig Steel Piles - Velloga Piles Steel Piles - Velloga Piles Steel Piles - Velloga Piles Steel Piles - Velloga Piles Steel Piles - Velloga Piles - Piles - Set up Rig Steel Piles - Velloga Piles - Piles	124 use MN subconts 49,809 49,809 49,809 11,037 2 2 11,037 318 8 11,793 2,273 114 2,560 4 37,007 3,759 188 2,689 128 6 467,450	SY BCY BCY BCY BCY BCY LF LF EA EA CA EA CY CY CY CY CY CY CY CY CY LB CY CY CY CY CY CY CY CY CY LB LB CA CY CY CY CY CY CY CY CY CY LB	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Pilnig Steel Piles - Drive Pilnig Steel Piles - Drive Pilnig Steel Piles - Drive Pilnig Steel Piles - Drive Steel Piles - Dile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Sw Waste Concrete - Piler - Build Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Form, Strip and Cure Concrete - Piler - Form, Strip and Cure Concrete - Piler - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form	use MN subconti 49,809 49,809 49,809 1182 11,037 2 2 21 80 11,037 318 8 1,793 2,273 114 2,560 4 4 37,007 3,759 188 6 467,450	SY BCY BCY BCY BCY BCY LF EA EA LF EA CF EA CY CY CY CY CY CY CY CY CY CY LB LB LB LB LB LB LB LB LB LB LB LB LB	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Steel Piles - Grade Steel Piles - Verlog Spiles Steel Piles - Outload Piles Steel Piles - Out Offs Steel Piles - Piles - Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Piles - Piles - Outload Piles Steel Piles - Piles - Piles - Outload Piles Steel Piles - Piles - Pour Concrete - Footing - Four Concrete - Pier - Build Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form Strip and Cure Concrete - Pier - Pour Concrete - Pier - Pour Concrete - Elevated Deck - Form Strip and Cure Concr	124 use MN subcont 49,809 49,809 49,809 1182 11,037 2 2 21 1,037 318 8 1,793 2,273 114 2,560 4 37,007 3,759 1188 2,689 128 6 467,450 467,450 7,500	SY BCY BCY BCY LF LF EA EA EA CY SF CY SF CY CY LB LB LB EA SF CY SF CY CY CY CY LB LB LB LB LB LB LB LB LB LB LB LB LB	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Pilnig Steel Piles - Drive Pilnig Steel Piles - Drive Pilnig Steel Piles - Drive Pilnig Steel Piles - Drive Steel Piles - Dile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Sw Waste Concrete - Piler - Build Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Form, Strip and Cure Concrete - Piler - Form, Strip and Cure Concrete - Piler - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form Strip and Cure Concrete - Form	124 use MN subconti 49,809 49,809 49,809 182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,566 4 4 37,007 3,759 188 6 467,450 467,450 47,500 3 3	SY actors for RF BCY BCY BCY LF LF LF EA EA LF EA CY CY CY CY CY CY CY LB LB LB LF EA EA EA EA EA EA EA EA EA EA EA EA EA	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Dile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Pour Concrete - Piler - Pour Concrete - Piler - Pour Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Pilers and Elevated Deck - 5% Waste Concrete - Walls, Pilers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Linstill Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Steel Reinforcement Bars - Hoist Hydraulic G	124 use MN subcont 49,809 49,809 49,809 1182 11,037 2 2 21 1,037 318 8 1,793 2,273 114 2,560 4 37,007 3,759 1188 2,689 128 6 467,450 467,450 7,500	SY BCY BCY BCY LF LF EA EA EA CY SF CY SF CY CY LB LB LB EA SF CY SF CY CY CY CY LB LB LB LB LB LB LB LB LB LB LB LB LB	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Furnish Material Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Orive Piling Steel Piles - Orive Piling Steel Piles - Orive Piling Steel Piles - Dile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Steel Piles - Pile Test Concrete - Piler - Build Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Form, Strip and Cure Concrete - Piler - Four Strip and Cure Concrete - Piler - Four Strip and Cure Concrete - Piler - Four Strip and Cure Concrete - Piler - Four Strip and Cure Concrete - Piler - Four Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Install Steel Reinforcement Bars - Furnish and Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install	124 use MN subcont 49,809 49,809 49,809 1182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,560 4 4 37,007 3,759 188 12,8 6 467,450 467,450 7,500 3 3	SY actors for RF BCY BCY BCY LF LF EA EA LF EA CY SF CY SF CY CY CY CY CY CY LB LB SF CY CY CY CY CY CY CY CY CY EA EA EA EA EA EA EA EA EA EA EA EA EA	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Piles - Verlounder Piles Steel Reinforcement Piles - Verlounder Piles Steel Reinforcement Bars - Horist Hydraulic Gate - Steel - Furnish Hydraulic Gate - Steel - Furnish Hydraulic Gate - Furnish and Install Bydraulic Gate - Steel - Furnish Hydraulic Gate - Furnish and Install	124 use MN subconti 49,809 49,809 182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,560 4 37,007 3,759 188 2,689 128 6 467,450 7,500 3 3 1	SY actors for RE BCY BCY BCY BCY LF LF EA EA EA CY SF CY CY CY CY CY CY LB LB LB SF CY CY CY CY CY LB LB LB LB LB LB LB LB LB LB LB LB LB	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Steel - Piles Steel - Form Strip and Cure Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Pour Goncrete - Piles - Pour Strip and Cure Concrete - Piles - Drive Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Pilers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Hydraulic Gate - Steel - Furnish Hydraulic Gate - Steel - Furnish Hydraulic Gate - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish	124 use MN subconti 49,809 49,809 49,809 182 11,037 2 21 80 11,037 318 8 1,793 2,273 1114 2,560 4 4 37,007 3,759 188 2,689 128 6 467,450 467,450 7,500 3 3 3 1 1 364 4 3364 11 366 4 1 3 366 4 1 3 366 4 1 3 366 4 1 3 366 4	SY actors for RF BCY BCY BCY LF LF EA EA EA CY CY CY CY CY CY CY LB EA EA EA EA EA EA EA EA EA EA EA EA EA	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Piles - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Piles - Build Forms Concrete - Piler - Build Forms Concrete - Piler - Piles Concrete - Piles Concre	124 use MN subcont 49,809 49,809 49,809 1182 11,037 2 2 11,037 318 8 1,793 2,273 114 2,560 4 37,007 3,759 1188 2,689 128 6 467,450 467,450 467,450 3 1 1 364 3,640	SY actors for RF BCY BCY BCY LF LF EA EA EA LF EA CY SF CY CY CY CY CY LB LB LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA EA EA EA EA EA EA EA EA EA EA	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Steel - Piles Steel - Form Strip and Cure Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Pour Goncrete - Piles - Pour Strip and Cure Concrete - Piles - Drive Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Pilers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Hydraulic Gate - Steel - Furnish Hydraulic Gate - Steel - Furnish Hydraulic Gate - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish	124 use MN subconti 49,809 49,809 49,809 182 11,037 2 21 80 11,037 318 8 1,793 2,273 1114 2,560 4 4 37,007 3,759 188 2,689 128 6 467,450 467,450 7,500 3 3 3 1 1 364 4 3364 11 366 4 1 3 366 4 1 3 366 4 1 3 366 4 1 3 366 4	SY actors for RF BCY BCY BCY LF LF EA EA EA CY CY CY CY CY CY CY LB EA EA EA EA EA EA EA EA EA EA EA EA EA	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Outload Piles Steel Piles - Piles - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Piles - Build Forms Concrete - Piler - Build Forms Concrete - Piler - Piles Concrete - Piles Concre	124 use MN subcont 49,809 49,809 49,809 1182 11,037 2 2 11,037 318 8 1,793 2,273 114 2,560 4 37,007 3,759 1188 2,689 128 6 467,450 467,450 467,450 3 1 1 364 3,640	SY actors for RF BCY BCY BCY LF LF EA EA EA LF EA CY SF CY CY CY CY CY LB LB LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA LF EA EA EA EA EA EA EA EA EA EA EA EA EA	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Steel Piles - Steel Piles Steel Piles - Steel Piles - Weld Spilices Steel Piles - Unload Piles Steel Piles - Out Offs Steel Piles - Out Offs Steel Piles - Out Offs Steel Piles - Dile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Steel Piles - Dile Test Concrete - Piles - Build Forms Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Pour Concrete - Piles - Form, Strip and Cure Concrete - Piles - Form Strip and Cure Concrete - Piles - Form Strip and Cure Concrete - Piles - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Install Steel Reinforcement Bars - Furnish and Install Hydraulic Gates - Steel - Furnish and Install Bulkheads - Steel - Furnish and Install Sheet Piling - Furnish and Install Sheet Piling - Furnish and Install Sheet Piling - Furnish and Install Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Steep In Piling - Steep - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet Piling - Steep - Furnish Sheet	124 use MN subcont 49,809 49,809 49,809 182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,560 4 4 37,007 3,759 188 2,689 128 6 467,450 467,450 3 1 1 364 3,640 3 2	SY actors for RF BCY BCY BCY LF LF EA EA EA LF EA CY CY SF CY CY CY CY CY CY CY CY CY CY CY CY CY	
			Earthwork - Structural Gated Control Structure Steel Piles Concrete - Footing Concrete - Piers Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Dile Test Concrete - Footing - Form Strip and Cure Concrete - Pier - Rosemble and Modify Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Pour Concrete - Pier - Pour Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Bridge Railing - Furnish and Install Sheet Piling - Lindad Sheeting	124 use MN subconti 49,809 49,809 49,809 182 11,037 2 21 80 11,037 318 8 1,793 2,273 114 2,560 4 4 37,007 3,759 188 2,689 167,450 6 467,450 7,500 3 3 3 1 1 364 3,640 3	SY actors for RF BCY BCY BCY LF LF LF EA EA EA CY CY CY CY CY CY CY CY CY CY CY CY CY	

	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	6,667	ECY	
	Walls		structure length 674		number of piles 756
	Steel Piles	Steel Piles - Furnish Material	36,972	LF	
		Steel Piles - Set up Rig	2	EA	
		Steel Piles - Unload Piles	67	EA	
		Steel Piles - Weld Splices	302	EA	
		Steel Piles - Drive Piling	36,972	LF	
		Steel Piles - Cut Sheets	756	EA	
		Steel Piles - Pile Test	5	EA	
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	9,231	SF	
		Concrete - Footing - Pour	3,062	CY	
		Concrete - Footing - 5% Waste	153	CY	
	Comments Florested Book		13,378	SF	
	Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure			
		Concrete - Elevated Deck - Pour	746	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	37	CY	
	Concrete - Walls	Concrete - Walls - Build Forms	2,560	SF	
		Concrete - Walls - Assemble and Modify Forms	4	EA	ļ
		Concrete - Walls - Form, Strip and Cure	53,670	SF	
		Concrete - Walls - Pour	8,774	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	439	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	1,336,337	LB	
	Sectification Control Data	Steel Reinforcement Bars - Points and Install	1,336,337	LB	
	Deldas Dailina		1,520	LF	
	Bridge Railing	Bridge Railing - Furnish and Install			
	Sheet Piling	Sheet Piling - Furnish Material	7,600	SF	
		Sheet Piling - Unload Sheeting	5	EA	
		Sheet Piling - Set up Rig	2	EA	
		Sheet Piling - Drive Sheets	507	EA	
		Sheet Piling - Cut Sheets	1,014	EA	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	2,462	ECY	
			-,		
	Riprap	Select Granular Aggregate - Furnish and Install	11,894	CY	1
	Imprap		23,787	CY	
		Riprap - Furnish and Install		SF	
	Fish Passage System	Fish Passage System - Furnish and Install	294,000		
		Hydraulic Gates - Steel - Furnish	300	SF	
		Hydraulic Gates - Steel - Install	2	EA	
		Hydraulic Gate Hoist - Furnish and Install	2	EA	
		Steel Bulkhead	1	LS	
		Wall Extension	1	LS	
	Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
	IMISCEIIAITEOUS I EACUTES	Electrical - Miscellaneous	1	LS	
		Safety Features - Miscellaneous	1	LS	
		SCADA (Supervisory Control and Data Acquisition) System	1	LS	
		Ice Control Measure - Furnish and Install	0	LF	
		Debris Control Measure - Furnish and Install	0	LF	
		Debris Maintenance Equipment	1	LS	
		Equipment Storage Shed	5,000	SF	
Hydi	aulic Structure - Wolverton Creek Closure/Drainage Structure				
- Inyur		a/Dustiness Churchurg Cita Micula			
	Hydraulic Structure - Wolverton Creek Closure		2.22		4
	Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	6,100	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	6,100	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	6,100	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	0	BCY	1
			0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content			
		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
				-	
		Earthwork - Type 3 Oxidized Brenna - Excavate	0	BCY	ļ
		Earthwork - Type 3 Oxidized Brenna - Haul	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 4 Brenna - Excavate	0	BCY	
		Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul	0	BCY	
					
		Earthwork - Type 4 Brenna - Spoil	0	BCY	+
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	0	BCY	ļ
	Dewatering and Control of Water	Control of Water	1	LS	
		I	2,500	LF	
	Electrical Utilities	Electrical Utilities	2,500	LF	
			1.0	Mile	
	Electrical Utilities Restore Local Roadways	Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing			

Exhibit - Construc	tion Cost Estimate Framewo	ork and Quantities - LPP NORTH D	JAKO I A DIVERSION			
			Straw Mulch and Disk Anchoring	3	AC	
			Vegetation Establishment and Maintenance	3	AC	
		Miscellaneous Features	Signage	1	LS	
			Chain link Fence	500	LF	
			Fence Vehicle Gates	2	EA	
		Hydraulic Structure - Wolverton Creek Closu				
		Earthwork - Structural	Earthwork - Structural Excavation	1,000	BCY	
		Earthwork - Structural	Earthwork - Structural Haul	1,000	BCY	
			Earthwork - Structural Embankment	1,000	BCY	
		Structure and Walls	Earthwork - Structural Embankment	1,000	BCT	
		Steel Piles	Carol Ollar Francis Manager	10,844	LF	
		Steel Piles	Steel Piles - Furnish Material Steel Piles - Set up Rig	2	EA	
			Steel Piles - Unload Piles	80	EA	
			Steel Piles - Weld Splices	300	EA	
			Steel Piles - Drive Piling	10,844	LF	
			Steel Piles - Cut Sheets	200	EA	
			Steel Piles - Pile Test	.5	EA	
		Concrete - Footing	Concrete - Footing - Form Strip and Cure	3,120	SF	
			Concrete - Footing - Pour	1,920	CY	
			Concrete - Footing - 5% Waste	96	CY	
		Concrete - Walls	Concrete - Walls - Build Forms	2,000	SF	
			Concrete - Walls - Assemble and Modify Forms	4	EA	
			Concrete - Walls - Form, Strip and Cure	13,700	SF	
			Concrete - Walls - Pour	1,200	CY	
			Concrete - Walls, Piers and Elevated Deck - 5% Waste	60	CY	
		Concrete - Piers	Concrete - Pier - Build Forms	2,693	SF	
			Concrete - Pier - Assemble and Modify Forms	1	EA	
			Concrete - Pier - Form, Strip and Cure	2,693	SF	
			Concrete - Pier - Pour	147	CY	
			Concrete - Walls, Piers and Elevated Deck - 5% Waste	7	CY	
		Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure	2,355	SF	
		Concrete Elevated Seek	Concrete - Elevated Deck - Pour	85	CY	
			Concrete - Walls, Piers and Elevated Deck - 5% Waste	4	CY	
		Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	493,000	LB	
		Steel Reilliorcement Bars		493,000	LB	
		Hydraulic Gates - Steel	Steel Reinforcement Bars - Hoist	200	SF	
		Hydraulic Gates - Steel	Hydraulic Gates - Steel - Furnish	2	EA	
			Hydraulic Gates - Steel - Install			
			Hydraulic Gate Hoist - Furnish and Install	2	EA	
		Bulkheads - Steel	Bulkheads - Steel - Furnish	1	LS	
		Bridge Railing	Bridge Railing - Furnish and Install	500	LF	
		Sheet Piling	Sheet Piling - Furnish	600	SF	
			Sheet Piling - Unload Sheeting	1	EA	
			Sheet Piling - Set up Rig	1	EA	
			Sheet Piling - Drive Sheets	40	EA	
			Sheet Piling - Cut Sheets	40	EA	
		Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	600	ECY	
		Riprap	Select Granular Aggregate - Furnish and Install	200	CY	
			Riprap - Furnish and Install	400	CY	
		Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
			Electrical - Miscellaneous	1	LS	
			Safety Features - Miscellaneous	1	LS	
			SCADA (Supervisory Control and Data Acquisition) System	1	LS	
			Equipment Storage Shed	2,000	SF	
	Hydraulic Structure -	- Wild Rice River - Site Work				
		Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
		Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	16,100	LF	
		- Surposary Erosion and Scalinentation Control	Erosion Control Blanket - Furnish and Install	43,560	SY	
		<u> </u>	Temporary Sedimentation Basins	12,000	BCY	
		-	Floating Silt Curtain	100	LF	
		Clearing and Grubbing	Clearing and Grubbing	29	AC	
		Strip and Stockpile Topsoil	Topsoil - Strip	120,000	BCY	
		Strip and Stockpile Topson				
		T	Topsoil - Stockpile	120,000	BCY	
L		Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	45,222	BCY	
			Aggregate Base - Class V - Furnish and Install	17,315	ECY	
			Haul Road Maintenance	60	DAY	
		Coffering - Steel Sheet pile	Sheet Piling - Furnish Material	4,200	SF	
			Sheet Piling - Unload Sheeting	3	EA	
		<u> </u>	Sheet Piling - Set up Rig	2	EA	
			Sheet Piling - Drive Sheets	94	EA	
			Sheet Piling - Cut Sheets	188	EA	
			Control of Water	1	LS	

	Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	6,908	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	6,908	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	6,908	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	6,908	BCY	
	Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	433,484	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	433,484	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	275,075	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	158,409	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	50,126	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	50,126	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	50,126	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Excavate	5,744	BCY	
		Earthwork - Type 3 Oxidized Brenna - Haul	5,744	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil	5,744	BCY	
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	5,744	BCY	
		Earthwork - Type 4 Brenna - Excavate	0	BCY	
		Earthwork - Type 4 Brenna - Haul	0	BCY	
		Earthwork - Type 4 Brenna - Spoil	0	BCY	
The state of the s		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	0	BCY	
		Earthwork - Haul From No-Spoil Areas	330,945	BCY	
	Dewatering and Control of Water	Dewatering and Control of Water	30	DAY	
		Temporary Storm Sewer Pipe	300	LF	
		Control of Water	1	LS	
	Flectrical Utilities	Electrical Utilities	2,000	LF	
	Channel Grade Control System	Channel Grade Control System	1	LS	
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	2.0	Mile	
	THE STATE COLUMN TO STATE OF THE STATE OF TH	Restore Local Haul Roadways - Bituminous Surfacing	1.0	Mile	
	Dust Control	Dust Control	60	DAY	
	Topsoil Placement	Topsoil - Install from Stockpile	120,000	BCY	
	Site Restoration	Seeding	90	AC	
	Site restoration	Straw Mulch and Disk Anchoring	90	AC	
		Vegetation Establishment and Maintenance	90	AC	
	Miles III and Francisco		1	LS	
	Miscellaneous Features	Signage Chain link Fence	2,000	LF LF	
		Fence Vehicle Gates	4	EA	
	Const. Downstal		640	HOURS	
	Snow Removal Excavation and Embankment - Channel - Lower Bank Protect	Snow Removal	040	HOURS	
	Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	
	iniprap Excavation	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul			
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate	0 0 6,142	BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	0 0 6,142 6,142	BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	0 0 6,142 6,142 6,142	BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0 0 6,142 6,142 6,142 6,142	BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Facavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Sexavate	0 0 6,142 6,142 6,142 6,142 0	BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Asual Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Sexavate Earthwork - Type 4 Brenna - Haul	0 0,142 6,142 6,142 6,142 6,142 0 0	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil	0 0 6,142 6,142 6,142 6,142 0 0	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Sexavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0 0,142 6,142 6,142 6,142 0,0 0	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Dx - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Lamthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Compact and Manage Moisture Content Lower Bank Protection Riprap - Furnish and Install	0 0,142 6,142 6,142 6,142 0 0 0 0 0 0 0 5,867	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Larthwork - Type 4 Brenna - Spoil Larthwork - Type 4 Brenna - Spoil Lower Bank Protection Reprap - Furnish and Install Lower Bank Protection Repcatefule - Furnish and Install	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 5,867 20,000	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Facavate Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Sema Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 5,867 20,000 275	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Larthwork - Type 4 Brenna - Spoil Larthwork - Type 4 Brenna - Spoil Lower Bank Protection Reprap - Furnish and Install Lower Bank Protection Repcatefule - Furnish and Install	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 5,867 20,000	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Hydraulic Structure - Wild Rice River - Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Dxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Carthwork - Type 5 Brenna - Spoil Carthwork - Type 6 Brenna - Spoil Carthwork - Type 8 Brenna - Spoil Carthwork - Typ	0 0 6,142 6,142 6,142 0 0 0 0 0 5,867 20,000 275 248	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0,5,867 20,000 275 248	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Hydraulic Structure - Wild Rice River - Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Dxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Geotextile - Furnish and install Grade Control Riprap - Furnish and install Grade Control Riprap - Furnish and install Grade Control Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation	0 0 6,142 6,142 6,142 0 0 0 0 0 0 0 0 2,5867 20,000 275 248	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Drenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Carthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Carde Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 5,867 20,000 275 248 27,411 27,411 27,411	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Diddized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment	0 0 6,142 6,142 6,142 6,142 0,142 0 0 0 0 5,867 20,000 275 248 27,411 27,411 27,411 2,411	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 5,887 20,000 275 248 27,411 27,411 27,411 ture length 84 5,100	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Dxidized Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Reprap - Furnish and Install Lower Bank Protection Reprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material	0 0 6,142 6,142 6,142 6,142 0,142 0 0 0 0 5,867 20,000 275 248 27,411 27,411 27,411 27,411 27,411 27,411 27,411 21,411 22,411 21,5,100	BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Dxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content Lower Bank Protection Igrap - Furnish and install Lower Bank Protection Igrap - Furnish and install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 0 0 0 0 275 248 27,411 27,411 27,411 27,411 27,411 27,411 27,411 27,411 27,411	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Drenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Stru Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Veld Spilces	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 5,867 20,000 275 248 27,411 27,411 27,411 27,411 27,411 21,411 22,411 21,411 22,411 27,411	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Type 6 Brenna - Spoil Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Excavation Earthwork - Structural Excavatio	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 0 0 0 5,867 20,000 275 248 27,411	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Structural Excavation Earthwork -	0 0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Sinder Serna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Carthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Carde Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Structural Structural Spoil Earthwork - Structural Haul Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Vurload Piles Steel Piles - Weld Spilices Steel Piles - Furnish Piling Steel Piles - File Test	0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 0 0 0 5,867 20,000 275 248 27,411	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100
	Hydraulic Structure - Wild Rice River - Structure Earthwork - Structural Gated Control Structure	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Type 4 Brenna - Spoil Earthwork - Structural Excavation Earthwork -	0 0 0 6,142 6,142 6,142 6,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	number of piles 100

	Concrete - Piers Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing Sheet Piling	Concrete - Footing - Pour Concrete - Footing - Stw Maste Concrete - Pier - Build Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Pour Concrete - Elevated Deck - Pour Concrete - Strip - Form Strip and Cure Concrete - Strip - Form Strip and Strip Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install Sheet Piling - Furnish and Install Sheet Piling - Furnish	832 42 2,560 4 15,922 1,604 80 1,143 59 3 192,447 1,800 2 2 2 1 168	CY CY SF EA SF CY CY CY SF CY CY SF CY CY EB LB LB SF EA LB SF EA	
	Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Pier - Bulid Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form, Strip and Cure Concrete - Pier - Four Concrete - Pier - Four Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gate - Steel - Furnish Hydraulic Gate - Steel - Furnish Ridge Railing - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	2,560 4 15,922 1,604 80 1,143 59 3 192,447 192,447 1,800 2 2 2 1 1 168	SF	
	Concrete - Elevated Deck Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Form Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	4 15,922 1,604 80 1,143 59 3 1192,447 1,800 2 2 2 1 1,668	EA SF CY CY SF CY CY LB LB LB SF EA LB LB LB	
	Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Pier - Form, Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	15,922 1,604 80 1,143 59 3 192,447 192,447 1,800 2 2 2 1 1,68	SF	
	Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Pier - Form, Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Elevated Deck - Form Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Bulkheads - Steel - Furnish Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	1,604 80 1,143 59 3 192,447 1192,447 1,800 2 2 2 1 1 168	CY CY SF CY CY LB LB LB LB SF EA LS	
	Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Walls, Piers and Elevated Deck - 5% Waste Concrete - Elevated Deck - Form Strip and Cure Concrete - Wasted Deck - Pour Strip and Cure Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate - Steel - Furnish Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	80 1,143 59 3 192,447 192,447 1,800 2 2 2 1 168	CY SF CY CY LB LB LB SF EA LS	
	Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Pour Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Holst Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Horstall Hydraulic Gate - Steel - Furnish Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install Bulkheads - Steel - Furnish	1,143 59 3 192,447 192,447 1,800 2 2 2 2 1 1,668	SF CY CY LB LB SF EA EA LS	
	Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Elevated Deck - Form Strip and Cure Concrete - Elevated Deck - Pour Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Holst Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Horstall Hydraulic Gate - Steel - Furnish Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install Bulkheads - Steel - Furnish	59 3 192,447 192,447 1,800 2 2 2 1 1 168	CY CY LB LB SF EA LA LS	
	Steel Reinforcement Bars Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Elevated Deck - Pour Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	59 3 192,447 192,447 1,800 2 2 2 1 1 168	CY LB LB SF EA LA LS	
	Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Concrete - Walls, Piers and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and install Steel Reinforcement Bars - Hostist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Horstall Hydraulic Gate Hoist - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	3 192,447 192,447 1,800 2 2 2 1 1,68	CY LB LB SF EA LA LS	
	Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Bulkheads - Steel - Furnish and Install Bridge Railing - Furnish and Install	192,447 192,447 1,800 2 2 1 168	LB LB SF EA LS	
	Hydraulic Gates - Steel Bulkheads - Steel Bridge Railing	Steel Reinforcement Bars - Hoist Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	192,447 1,800 2 2 2 1 168	LB SF EA EA	
	Bulkheads - Steel Bridge Railing	Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	1,800 2 2 2 1 1 168	SF EA EA LS	
	Bulkheads - Steel Bridge Railing	Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	2 2 1 168	EA EA LS	
	Bridge Railing	Hydraulic Gate Hoist - Furnish and Install Bulkheads - Steel - Furnish Bridge Ralling - Furnish and Install	2 1 168	EA LS	
	Bridge Railing	Bulkheads - Steel - Furnish Bridge Railing - Furnish and Install	1 168	LS	
	Bridge Railing	Bridge Railing - Furnish and Install	168		
	Sheet Piling	Sheet Piling - Furnish		LF	
			1,680	SF	
		Sheet Piling - Unload Sheeting	2	EA	
		Sheet Piling - Set up Rig	2	EA	
		Sheet Piling - Drive Sheets	56	EA	
		Sheet Piling - Cut Sheets	112	EA	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	3,889	ECY	
	Wingwalls		structure length 520	-	number of piles 294
	Steel Piles	Steel Piles - Furnish Material	17,476	LF	
		Steel Piles - Set up Rig	2	EA	
		Steel Piles - Unload Piles	32	EA	
			140	FA	
		Steel Piles - Weld Splices		LF	
		Steel Piles - Drive Piling	17,476		
		Steel Piles - Cut Offs	294	EA	
		Steel Piles - Pile Test	4	EA	
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	5,772	SF	
		Concrete - Footing - Pour	1,478	CY	
		Concrete - Footing - 5% Waste	74	CY	
	Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure	9,388	SF	
		Concrete - Elevated Deck - Pour	508	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	25	CY	
	Caranta Malla	Concrete - Walls - Build Forms	2,560	SF	
	Concrete - Walls	Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms	2,360	EA	
		Concrete - Walls - Form, Strip and Cure	24,312	SF	
		Concrete - Walls - Pour	3,576	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	179	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	638,422	LB	
		Steel Reinforcement Bars - Hoist	638,422	LB	
	Bridge Railing	Bridge Railing - Furnish and Install	1,040	LF	
	Sheet Piling	Sheet Piling - Furnish Material	5,200	SF	
		Sheet Piling - Unload Sheeting	4	EA	
		Sheet Piling - Set up Rig	2	EA	
		Sheet Piling - Drive Sheets	173	EA	
		Sheet Piling - Cut Sheets	346	EA	
	Chrystural Agreement Design		1,369	ECY	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	1,369	EUT	
		Select Granular Aggregate - Furnish and Install	5,718	CY	
	Dioran	Select Granular Aggregate - Furnish and Install			
	Riprap		44 :		
		Riprap - Furnish and Install	11,435	CY	
	Riprap Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install	210,000	SF	
		Ripray - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish	210,000 300	SF SF	
		Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Irurish Hydraulic Gates - Steel - Install	210,000 300 2	SF SF EA	
		Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install	210,000 300	SF SF EA EA	
		Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Irurish Hydraulic Gates - Steel - Install	210,000 300 2	SF SF EA	
		Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install	210,000 300 2 2	SF SF EA EA	
		Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Holst - Furnish and Install Steel Bulkhead	210,000 300 2 2 1	SF SF EA EA	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Steel Bulkhead Wall Extension	210,000 300 2 2 1 1	SF SF EA EA LS LS	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous	210,000 300 2 2 2 1 1 1	SF SF EA EA LS LS LS	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Buikhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Features - Miscellaneous	210,000 300 2 2 2 1 1 1 1 1 1	SF SF EA EA LS LS LS LS LS LS LS	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous SADA (Supervisory Control and Data Acquisition) System	210,000 300 2 2 2 1 1 1 1 1 1 1	SF SF SF EA EA LS LS LS LS LS LS LS LS LS LS LS LS LS	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Inrish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Foatures - Miscellaneous ScCAD (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install	210,000 300 2 2 2 1 1 1 1 1 1 1 2,000	SF SF SF EA EA LS LS LS LS LS LS LS LS LS LS LS LS LS	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Buikhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Features - Miscellaneous SCADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Control Measure - Furnish and Install	210,000 300 2 2 2 1 1 1 1 1 2,000 200	SF SF EA EA LS LS LS LS LS LS LS LS LS LS LS LS LS	
	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Features - Miscellaneous SCADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Maintenance Equipment	210,000 300 2 2 2 1 1 1 1 1 2,000 200	SF SF EA EA EA EA EA ES ES ES ES ES ES ES ES ES ES ES ES ES	
	Fish Passage System Miscellaneous Features	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Buikhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Features - Miscellaneous SCADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Control Measure - Furnish and Install	210,000 300 2 2 2 1 1 1 1 1 2,000 200	SF SF EA EA LS LS LS LS LS LS LS LS LS LS LS LS LS	
Hydrau	Fish Passage System	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Features - Miscellaneous SCADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Maintenance Equipment	210,000 300 2 2 2 1 1 1 1 1 2,000 200	SF SF EA EA EA EA EA ES ES ES ES ES ES ES ES ES ES ES ES ES	
Hydrau	Fish Passage System Miscellaneous Features Miscellaneous Features	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safely Features - Miscellaneous Safely Features - Miscellaneous SCADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Control Measure - Furnish and Install Debris Maintenance Equipment Equipment Storage Shed	210,000 300 2 2 2 1 1 1 1 1 2,000 200 1 5,000	SF SF SF EA EA EA EA EA EA EA EA EA EA EA EA EA	
Hydrau	Fish Passage System Miscellaneous Features	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safety Features - Miscellaneous Safety Features - Miscellaneous ScADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Maintenance Equipment Equipment Storage Shed Earthwork - Structural Excavation	210,000 300 2 2 2 1 1 1 1 1 2,000 200 1 5,000 3,000	SF SF SF EA EA LS LS LS LS LS LS LS SF SF	
Hydrau	Fish Passage System Miscellaneous Features Miscellaneous Features	Riprap - Furnish and Install Fish Passage System - Furnish and Install Hydraulic Gates - Steel - Furnish Hydraulic Gates - Steel - Install Hydraulic Gates - Steel - Install Hydraulic Gate Hoist - Furnish and Install Steel Bulkhead Wall Extension Mechanical - Miscellaneous Electrical - Miscellaneous Safely Features - Miscellaneous Safely Features - Miscellaneous SCADA (Supervisory Control and Data Acquisition) System Ice Control Measure - Furnish and Install Debris Control Measure - Furnish and Install Debris Maintenance Equipment Equipment Storage Shed	210,000 300 2 2 2 1 1 1 1 1 2,000 200 1 5,000	SF SF SF EA EA EA EA EA EA EA EA EA EA EA EA EA	

 n Cost Estimate Framev	work and Quantities - LPP NORTH DAK				
		Sheet Piling - Unload Sheeting	9	EA	
		Sheet Piling - Set up Rig	4	EA	
		Sheet Piling - Drive Sheets	30	EA	
		Sheet Piling - Cut Sheets	60	EA	
	Riprap	Select Granular Aggregate - Furnish and Install	167	CY	
		Riprap - Furnish and Install	333	CY	
	Miscellaneous	SCADA (Supervisory Control and Data Acquisition) System	1	LS	
Hydraulic Structu	re - Inlet Weir to Diversion				
	re - Inlet Weir to Diversion - Site Work				
nyuraunc structu	Site Preparation and Traffic Control		1	IS	
 		Site Preparation and Traffic Control	_ _		
 	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	1,500	LF	
		Erosion Control Blanket - Furnish and Install	5,000	SY	
		Temporary Sedimentation Basins	1,400	BCY	
	Clearing and Grubbing	Clearing and Grubbing	1	AC	
 	Strip and Stockpile Topsoil	Topsoil - Strip	14,626	BCY	
		Topsoil - Stockpile	14,626	BCY	
	Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	2,000	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,000	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,000	BCY	
	Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	30,317	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	30,317	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	14,175	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	16,142	BCY	
		- The Thorastance non-premia cover children	10,142		
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	14,551	BCY	
 		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil	14,551	BCY	
 		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	14,551	BCY	
 		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Excavate	51,548	BCY	
 		Earthwork - Type 3 Oxidized Brenna - Haul	51,548	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil	51,548	BCY	
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	51,548	BCY	
		Earthwork - Type 4 Brenna - Excavate	8,087	BCY	
		Earthwork - Type 4 Brenna - Haul	8,087	BCY	
		Earthwork - Type 4 Brenna - Spoil	8,087	BCY	
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	8,087	BCY	
		Earthwork - Haul From No-Spoil Areas	88,361	BCY	
	Dewatering and Control of Water	Dewatering and Control of Water	30	DAY	
 	Dewatering and Control of Water	Temporary Storm Sewer Pipe	100	LF	
 		Control of Water	1	LS	
	Electrical Utilities	Electrical Utilities	5,000	LF	
 			1.0	Mile	
 	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing	1.0		
	1		1.0		
			1.0	Mile	
	Dust Control	Dust Control	30	Mile DAY	
	Topsoil Placement	Dust Control Topsoil - Install from Stockpile	30 14,626	Mile DAY BCY	
		Dust Control Toppoil - Install from Stockpile Seeding	30 14,626 10	Mile DAY BCY AC	
	Topsoil Placement	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring	30 14,626 10 10	Mile DAY BCY AC AC	
	Topsoil Placement Site Restoration	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance	30 14,626 10 10	Mile DAY BCY AC AC AC	
	Topsoil Placement	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage	30 14,626 10 10 10	Mile DAY BCY AC AC LS	
	Topsoil Placement Site Restoration	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence	30 14,626 10 10 10 10 1 10	Mile DAY BCY AC AC LS LS	
	Topsoil Placement Site Restoration	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage	30 14,626 10 10 10	Mile DAY BCY AC AC LS	
	Topsoil Placement Site Restoration	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence	30 14,626 10 10 10 10 1 10	Mile DAY BCY AC AC LS LS	
	Topsoil Placement Site Restoration Miscellaneous Features	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates	30 14,626 10 10 10 1 1 600 2	Mile DAY BCY AC AC LS LF EA	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal	30 14,626 10 10 10 1 1 600 2 320	Mile DAY BCY AC AC AC LS LF EA HOURS	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehice Gates Snow Removal Earthwork - Structural Escavation Earthwork - Structural Haul	30 14,626 10 10 10 1 1 600 2 320 5,000	Mile DAY BCY AC AC LS LF EA HOURS BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Leve Embankment	30 14,626 10 10 10 10 1 1 600 2 320 5,000 5,000	Mile DAY BCY AC AC LS LF EA HOURS BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Leve Embankment	30 14,626 10 10 10 10 1 1 600 2 320 5,000 5,000	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Structural Levee Embankment	30 14,626 10 10 10 11 10 2 2 320 5,000 5,000 0	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	30 14,626 10 10 10 10 1 1 600 2 320 5,000 5,000 5,000	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehice Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Levee Embankment Earthwork Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	30 14,626 10 10 10 11 600 2 2 320 5,000 5,000 0 0	Mile DAY BCY AC AC AC LS LS EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Exeavate and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	30 14,626 10 10 10 11 10 2 320 5,000 5,000 0 0	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil	30 14,626 10 10 10 10 11 5000 2 320 5,000 5,000 5,000 0 0	Mile DAY BCY AC AC AC AC AC LS LS LF EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Escavation Earthwork - Structural Escavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Sepoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil	30 14,626 10 10 10 10 11 600 2 320 5,000 5,000 0 0 0 0 0 0 0	Mile DAY BCY AC AC AC LS LS LF EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oudliced Brenna - Excavate	30 14,626 10 10 10 10 10 11 600 2 320 5,000 5,000 0 0 0 0 0 0 0 860	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Escavation Earthwork - Structural Escavation Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Haul	30 14,626 10 10 10 10 11 600 2 320 5,000 5,000 0 0 0 0 0 860	Mile DAY BCY AC AC AC AC AC AC AC BCY BCY BCY BCY BCY BCY BCY BCY BCY BC	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Son-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haval Earthwork - Type 3 Oxidized Brenna - Haval Earthwork - Type 3 Oxidized Brenna - Haval	30 14,626 10 10 10 10 10 11 600 2 320 5,000 5,000 0 0 0 0 0 0 0 0 0 0 880 880 880	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Have Embankment Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Fxxavate Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil	30 14,626 10 10 10 10 10 11 500 2 320 5,000 5,000 0 0 0 0 0 0 0 860 860	Mile DAY BCY AC AC AC AC LS LS LF EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Topsoil Placement Site Restoration Miscellaneous Features Snow Removal Earthwork - Structural Excavation and Embankment - Channel - Lower Bank Protection	Dust Control Topsoil - Install from Stockpile Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Snow Removal Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Son-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haval Earthwork - Type 3 Oxidized Brenna - Haval Earthwork - Type 3 Oxidized Brenna - Haval	30 14,626 10 10 10 10 10 11 600 2 320 5,000 5,000 0 0 0 0 0 0 0 0 0 0 880 880 880	Mile DAY BCY AC AC AC LS LF EA HOURS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	

xhibit - Construction Cost Estimate	Framework and Quantities - LPP NORTH [DAKOTA DIVERSION			
		Earthwork - Type 4 Brenna - Spoil	0	BCY	
		Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	0	BCY	
	Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	860	CY	
		Lower Bank Protection Geotextile - Furnish and Install	300	SY	
		Grade Control Riprap - Furnish and Install	0	CY	
		Grade Control Geotextile - Furnish and Install	0	SY	 1
	Concrete Rollway Structure				
	Steel Piles	Steel Piles - Furnish Material	9,234	LF	 ļ
		Steel Piles - Set up Rig	1	EA	
		Steel Piles - Unload Piles	16	EA	 ļ
		Steel Piles - Weld Splices	0	EA	
		Steel Piles - Drive Piling	9,234	LF	 ļ
		Steel Piles - Cut Offs	0	EA	
		Steel Piles - Pile Test	0	EA	 ļ
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	1,229	SF	 -
		Concrete - Footing - Pour	990	CY	 ļ
		Concrete - Footing - 5% Waste	50	CY	 ļ
	Concrete - Walls	Concrete - Walls - Build Forms	2,500	SF	-
		Concrete - Walls - Assemble and Modify Forms	2	EA	
		Concrete - Walls - Form, Strip and Cure	9,234	SF	 -
		Concrete - Walls - Pour	1,691	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	85	CY	 1
	Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure	0	SF	 1
		Concrete - Elevated Deck - Pour	0	CY	 1
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	0	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	235,463	LB	 1
		Steel Reinforcement Bars - Hoist	235,463	LB	 1
	Bridge Railing	Bridge Railing - Furnish and Install	900	LF	 1
	Sheet Piling	Sheet Piling - Furnish	900	SF	
		Sheet Piling - Unload Sheeting	1	EA	
		Sheet Piling - Set up Rig	1	EA	
		Sheet Piling - Drive Sheets	33	EA	
		Sheet Piling - Cut Sheets	66	EA	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	500	ECY	 <u> </u>
	Wingwalls				
	Steel Piles	Steel Piles - Furnish Material	12,100	LF	
		Steel Piles - Set up Rig	1	EA	
		Steel Piles - Unload Piles	23	EA	
		Steel Piles - Weld Splices	0	EA	
		Steel Piles - Drive Piling	12,100	LF	
		Steel Piles - Cut Offs	0	EA	
		Steel Piles - Pile Test	0	EA	
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	1,229	SF	
		Concrete - Footing - Pour	990	CY	
		Concrete - Footing - 5% Waste	50	CY	
	Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure	0	SF	
		Concrete - Elevated Deck - Pour	0	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	0	CY	
	Concrete - Walls	Concrete - Walls - Build Forms	2,500	SF	
		Concrete - Walls - Assemble and Modify Forms	4	EA	
		Concrete - Walls - Form, Strip and Cure	50,000	SF	
		Concrete - Walls - Pour	3,000	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	150	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	354,000	LB	
		Steel Reinforcement Bars - Hoist	354,000	LB	1
	Bridge Railing	Bridge Railing - Furnish and Install	700	LF	
	Sheet Piling	Sheet Piling - Furnish Material	7,000	SF	
		Sheet Piling - Unload Sheeting	5	EA	
		Sheet Piling - Set up Rig	1	EA	
		Sheet Piling - Drive Sheets	293	EA	
		Sheet Piling - Cut Sheets	586	EA	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	300	ECY	
	Riprap	Select Granular Aggregate - Furnish and Install	600	CY	 ļ
		Riprap - Furnish and Install	1,200	CY	 ļ
	Miscellaneous Features	Mechanical - Miscellaneous	1	LS	 1
		Electrical - Miscellaneous	1	LS	 1
		Safety Features - Miscellaneous	1	LS	 1
		SCADA (Supervisory Control and Data Acquisition) System	1	LS	
		Ice Control Measure - Furnish and Install	1,200	LF	
		Debris Maintenance Equipment	1	LS	
		Equipment Storage Shed	5,000	SF	
		Equipment Storage Shed	5,000	SF	

	Construction Cost Estimate Framew	e - Drain 14 - Large Drain Structure					
		Earthwork - Structural	Earthwork - Structural Excavation	1,000	BCY		
			Earthwork - Structural Haul	1,000	BCY		
			Earthwork - Structural Embankment	1,000	BCY		-
		Dewatering and Control of Water	Control of Water	1,000	LS		
		Steel Piles	Steel Piles - Furnish Material	58,177	LF		
		Steel Piles			EA		-
			Steel Piles - Set up Rig	4			-
			Steel Piles - Unload Piles	110	EA		
			Steel Piles - Weld Splices	430	EA		-
			Steel Piles - Drive Piling	58,000	LF		
			Steel Piles - Cut Sheets	430	EA		
			Steel Piles - Pile Test	12	EA		
		Concrete - Footing	Concrete - Footing - Form Strip and Cure	12,000	SF		
			Concrete - Footing - Pour	5,000	CY		
			Concrete - Footing - 5% Waste	250	CY		
		Concrete - Walls	Concrete - Walls - Build Forms	1.000	SF	1	
			Concrete - Walls - Assemble and Modify Forms	2	EA		
			Concrete - Walls - Form, Strip and Cure	40,000	SF	<u> </u>	
			Concrete - Walls - Pour	2,000	CY		-
			Concrete - Walls, Piers and Elevated Deck - 5% Waste	100	CY		1
		Charl Daleforman & Dani					
		Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	1,000,000	LB	1	+
			Steel Reinforcement Bars - Hoist	1,000,000	LB		-
		Bridge Railing	Bridge Railing - Furnish and Install	1,000	LF	ļ	ļ
		Sheet Piling	Sheet Piling - Furnish	0	SF		
			Sheet Piling - Unload Sheeting	0	EA		
			Sheet Piling - Set up Rig	0	EA		
			Sheet Piling - Drive Sheets	0	EA		
			Sheet Piling - Cut Sheets	0	EA		
		Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	1,000	ECY		
		Riprap	Select Granular Aggregate - Furnish and Install	500	CY		
		THE TOTAL PARTY OF THE TOTAL PAR	Riprap - Furnish and Install	1,000	CY		
		Missellanson Francisco		1,000	LS		
		Miscellaneous Features	Safety Features - Miscellaneous	1	LS		-
			SCADA (Supervisory Control and Data Acquisition) System	1	LS		
	Hydraulic Structur	e - Sheyenne River - Site Work					
	Tryandane Structure	Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS		
		Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	12,000	LF		
			Erosion Control Blanket - Furnish and Install	48,400			
					SY		
			Temporary Sedimentation Basins	13,333	SY BCY		
			Temporary Sedimentation Basins Floating Silt Curtain				
		Clearing and Grubbing		13,333	BCY		
		Clearing and Grubbing Strip and Stockpile Topsoil	Floating Silt Curtain	13,333 100 15 160,957	BCY LF AC BCY		
		Strip and Stockpile Topsoil	Floating Silt Curtain Clearing and Grubbing Topsol - Strip Topsol - Stockpile	13,333 100 15 160,957 160,957	BCY LF AC BCY BCY		
			Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	13,333 100 15 160,957 160,957 25,900	BCY LF AC BCY BCY BCY		
		Strip and Stockpile Topsoil	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install	13,333 100 15 160,957 160,957 25,900 9,217	BCY LF AC BCY BCY BCY ECY		
		Strip and Stockpile Topsoil Temporary Haul Roads	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance	13,333 100 15 160,957 160,957 25,900 9,217 60	BCY LF AC BCY BCY BCY BCY BCY DAY		
		Strip and Stockpile Topsoil	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and install Haul Road Maintenance Sheet Piling - Furnish Material	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400	BCY LF AC BCY BCY BCY CY BCY CY CY SF		
		Strip and Stockpile Topsoil Temporary Haul Roads	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2	BCY LF AC BCY BCY BCY BCY COMPANY SF EA		
		Strip and Stockpile Topsoil Temporary Haul Roads	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400	BCY LF AC BCY BCY BCY COMMON SECONDAY SF EA EA		
		Strip and Stockpile Topsoil Temporary Haul Roads	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type I. Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Drive Sheets	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2	BCY LF AC BCY BCY BCY BCY COMPANY SF EA		
		Strip and Stockpile Topsoil Temporary Haul Roads	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig	13,333 100 15 16,0557 160,957 25,900 9,217 60 2,400 2	BCY LF AC BCY BCY BCY BCY BCY ECY COMPANY SF EA EA EA		
		Strip and Stockpile Topsoil Temporary Haul Roads	Floating Silt Curtain Clearing and Grubbing Topsol - Strip Topsol - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Cut Sheets	13,333 100 15 160,957 25,900 9,217 60 2,400 2 2 2 2 107 214 1 12,095	BCY LF AC BCY BCY BCY ECY DAY SF EA EA EA EA LS BCY		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Floating Silt Curtain Clearing and Grubbing Topsol - Strip Topsol - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 2 2 107 214 1 12,095	BCY LF AC BCY BCY BCY ECY DAY EA EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type I. Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Drive Sheets Sheet Piling - Unive Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type I Non-Saturated Non-Brenna - Escavate and Haul Earthwork - Type I Non-Saturated Non-Brenna - Spoil Earthwork - Type I Non-Saturated Non-Brenna - Spoil Earthwork - Type I Non-Saturated Non-Brenna - Spoil Earthwork - Type I Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 2 2 107 214 1 12,095 12,095	BCY LF AC BCY BCY ECY DAY SF EA EA EA EA EA EA EA EA EA E		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Ort Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	13,333 100 15 160,957 25,900 9,217 60 2,400 2 2 2 107 214 1 12,095 12,095 12,095	BCY LF AC BCY BCY BCY ECY DAY SF EA EA EA EA EA EA EA EA EA E		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Lexee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Lexee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Lexee Embankment	13,333 100 15 160,957 25,900 9,217 60 2,400 2 107 214 1 12,095 12,095 12,095 1,172,333	BCY LF AC BCY BCY BCY DAY SF EA EA EA EA EA EA EA EA EA E		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Drive Sheets Sheet Piling - Drive Sheets Sheet Piling - Orive Sheets Sheet Piling - Trivish Material Sheet Piling - Set up Rig	13,333 100 15 160,957 25,900 9,217 60 2,400 2 2 2 2 107 214 1 12,095 12,095 12,095 12,095 1,172,333 1,172,333	BCY LF AC BCY BCY BCY BCY ECY DAY FEA EA EA EA EA EA EA EA EA E		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Chid Sheeting Sheet Piling - Ord Sheeting Sheet Piling - Ord Sheets Sheet Piling - Out Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Ever Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Ever Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Ever Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 2 107 214 1 12,095 12,095 12,095 12,095 1,172,333 1,172,333 1,156,640	BCY LF AC BCY BCY BCY ECY DAY SF EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BC		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Lord Sheeting Sheet Piling - Set up Rig Sheet Piling - Drive Sheets Sheet Piling - Drive Sheets Sheet Piling - Orive Sheets Sheet Piling - The Sheets Sheet Piling - Country Sheets	13,333 100 15 160,957 25,900 9,217 60 2,400 2 2 2 2 107 214 1 12,095 12,095 12,095 12,095 1,172,333 1,172,333	BCY LF AC BCY BCY BCY BCY ECY DAY FEA EA EA EA EA EA EA EA EA E		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Strip Topsoll - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Ori	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 2 107 214 1 12,095 12,095 12,095 12,095 12,095 1,172,333 1,172,333 1,176,640 15,693	BCY LF AC BCY BCY BCY BCY BCY SF EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Cut Sheets Control Of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levave te Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levavete and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate Embankment	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 107 214 1 12,095 12,095 12,095 12,095 1,172,333 1,172,333 1,172,333 1,172,333 1,156,640 15,693	BCY LF AC BCY BCY BCY BCY BCY ECY DAY SF EA EA EA EA EA EA EC BCY BCY BCY BCY BCY BCY BCY BCY BCY BC		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoll - Strip Topsoll - Strip Topsoll - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Ori	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 2 107 214 1 12,095 12,095 12,095 12,095 12,095 1,172,333 1,172,333 1,176,640 15,693	BCY LF AC BCY BCY BCY BCY BCY SF EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Loring Sheeting Sheet Piling - Set up Rig Sheet Piling - Unive Sheets Sheet Piling - Unive Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 2 Saturated Non-Brenna - Sepoil Earthwork - Type 2 Saturated Non-Brenna - Sepoil	13,333 100 15 160,957 25,900 9,217 60 2,400 2 2 2 107 214 1 12,095 12,095 12,095 12,095 1,172,333 1,172,333 1,172,333 1,172,640 15,693	BCY LF AC BCY BCY BCY BCY BCY SF EA EA EA EA EA EA EC BCY BCY BCY BCY BCY BCY BCY BCY BCY BC		
		Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Sem Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	13,333 100 15 160,957 160,957 25,900 9,217 60 2,400 2 2 107 214 1 12,095 12,095 12,095 12,095 1,172,333 1,172,333 1,172,333 1,156,640 15,693 260,189	BCY LF AC BCY BCY BCY BCY BCY ECY DAY FEA EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY		

mate mamework t	and Quantities - LPP NORTH DAKO					
		Earthwork - Type 3 Oxidized Brenna - Haul	464,378	BCY		
		Earthwork - Type 3 Oxidized Brenna - Spoil	464,378	BCY		
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	464,378	BCY		
		Earthwork - Type 4 Brenna - Excavate	463,923	BCY		
		Earthwork - Type 4 Brenna - Haul	463,923	BCY		
		Earthwork - Type 4 Brenna - Spoil	463,923	BCY		
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	463,923	BCY	ļ	<u> </u>
		Earthwork - Haul From No-Spoil Areas	2,345,129	BCY		
De	ewatering and Control of Water	Dewatering and Control of Water	30	DAY		
		Temporary Storm Sewer Pipe	300	LF		
		Control of Water	1	LS		
	ectrical Utilities	Electrical Utilities	3,000	LF		
Cha	nannel Grade Control System	Channel Grade Control System	1	LS		
Res	store Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	2.0	Mile		
		Restore Local Haul Roadways - Bituminous Surfacing	1.0	Mile	ļ	
	ust Control	Dust Control	60	DAY		
Тор	psoil Placement	Topsoil - Install from Stockpile	160,957	BCY		
Site	e Restoration	Seeding	100	AC		
		Straw Mulch and Disk Anchoring	100	AC		
		Vegetation Establishment and Maintenance	100	AC		
Mis	iscellaneous Features	Signage	1	LS		
		Chain link Fence	2,000	LF		
		Fence Vehicle Gates	4	EA		
Sno	ow Removal	Snow Removal	640	HOURS	1	
	cavation and Embankment - Channel - Lower Bank Protection					
	prap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY		
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY		
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	0	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	0	BCY	† · · · · · · · · · · · · · · · · · · ·	<u> </u>
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY		<u> </u>
		Earthwork - Type 3 Oxidized Brenna - Excavate	0	BCY		
		Earthwork - Type 3 Oxidized Brenna - Haul	0	BCY	1	
		Earthwork - Type 3 Oxidized Brenna - Spoil	0	BCY		<u> </u>
 		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0	BCY		· · · · · · · · · · · · · · · · · · ·
		Earthwork - Type 4 Brenna - Excavate	6,824	BCY	<u> </u>	<u> </u>
		Earthwork - Type 4 Brenna - Haul	6,824	BCY	+	
		Earthwork - Type 4 Brenna - Spoil	6,824	BCY	<u> </u>	-
			0,024			ļ
			C 024	PCV		
	w Flow Channel and Lower Bank Protection	Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	6,824	BCY		ļ
Lov	w Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	6,519	CY		
Lov	w Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install	6,519 22,222	CY SY		
Lov	w Flow Channel and Lower Bank Protection	Lower Bank Protection Rijkrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install	6,519 22,222 306	CY SY CY		
		Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install	6,519 22,222	CY SY		
Hydraulic Structure - She	eyenne River - Structure	Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install	6,519 22,222 306 275	CY SY CY SY		
Hydraulic Structure - She		Lower Bank Protection Rijprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Roperap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation	6,519 22,222 306 275 24,596	CY SY CY SY BCY		
Hydraulic Structure - She	eyenne River - Structure	Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Hauli	6,519 22,222 306 275 24,596 24,596	CY SY CY SY BCY		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural	Lower Bank Protection Rijprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Roperap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation	6,519 22,222 306 275 24,596 24,596 24,596	CY SY CY SY BCY BCY BCY		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls	Lower Bank Protection Rijvrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijvrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment	6,519 22,222 306 275 24,596 24,596 24,596 24,596 262	CY SY CY SY BCY BCY BCY LF		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural	Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material	6,519 22,222 306 275 24,596 24,596 24,596 24,596 64,196	CY SY CY SY BCY BCY BCY LF LF		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijrrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Emankment Steel Piles - Furnish Material Steel Piles - Furnish Material	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6,196 6	CY SY CY SY BCY BCY BCY LF LF EA		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijarap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijarap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rijg Steel Piles - Vulnoad Piles	6,519 22,222 306 275 24,596 24,596 24,596 24,596 64,196 6 118	CY SY CY SY BCY BCY BCY LF LF EA EA		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Excavation Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Unload Piles	6,519 22,222 306 275 24,596 24,596 24,596 26,196 6 118 187	CY SY CY SY BCY BCY BCY LF LF EA EA		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijurap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Verle Spiles	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6,196 6 118 187 64,196	CY SY CY SY BCY BCY BCY LF LF EA EA EA LF		
Hydraulic Structure - She	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Estribusork - Structural Structural Haul Estribusork - Structural Haul Estribusork	6,519 22,222 306 275 24,596 24,596 24,596 24,596 66,196 6 118 187 64,196 64,196 737	CY SY CY SY BCY BCY BCY BCY LF LF EA EA EA EA		
Hydraulic Structure - She far Aq Ste	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijrrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling	6,519 22,222 306 275 24,596 24,596 24,596 26,196 6 118 187 64,196 737 24	CY SY CY SY BCY BCY BCY LF LF EA EA LF EA EA		
Hydraulic Structure - She far Aq Ste	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijurap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Out Offs Steel Piles - Cut Offs Steel Piles - Piles - Piles - Cut Offs Steel Piles - Piles	6,519 22,222 306 275 24,596 24,596 24,596 24,596 64,196 6 118 187 64,196 737 24 24,536	CY SY CY SY BCY BCY LF LF EA EA LF EA LF EA SF		
Hydraulic Structure - She far Aq Ste	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Excavation Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Volhoad Piles Steel Piles - Volhoad Piles Steel Piles - Voltage Spiles Steel Piles - Voltage Spiles Steel Piles - Ortwe Piling Steel Piles - Cut Offs Steel Piles - Ortwe Piling Steel Piles - Cut Offs Steel Piles - Steel Piles - Pile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure	6,519 22,222 306 275 24,596 24,596 24,596 26,596 64,196 6 118 187 64,196 64,196 737 24 24,536 92,297	CY SY CY SY BCY BCY BCY LF EA EA EA EA CF EA CF EA CF CY		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing	Lower Bank Protection Rijrrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrrap - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Cut Offs Steel Piles - Cut Offs Steel Piles - Furnish Tipe Test Concrete - Footing - Four Concrete - Footing - Pour Concrete - Footing - Four	6,519 22,222 306 275 24,596 24,596 24,596 26,196 6 118 187 64,196 737 24 24,536 9,297 465	CY SY CY SY BCY BCY BCY BCY LF LF EA EA EA CF CY CY CY		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles	Lower Bank Protection Rijprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Verload Splices Steel Piles - Verlo Piling Steel Piles - Cut Offs Steel Piles - Furnish Test Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Fowr Concrete - Footing - S% Waste Concrete - Footing - SW Waste Concrete - Footing - Swids - Build Forms	6,519 22,222 306 275 24,596 24,596 24,596 24,596 64,196 6 118 187 64,196 737 24 24,536 9,297 465 2,000	CY SY CY SY BCY BCY LF EA EA LF EA LF EA CY SF		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Ortro Piling Steel Piles - Furnish Grade Steel Piles - Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Fow Swate Concrete - Walls - Build Forms Concrete - Walls - Susemble and Modify Forms	6,519 22,222 306 275 24,596 24,596 24,596 26,266 6 118 187 64,196 64,196 737 24 24,536 92,297 465 2,000	CY SY CY SY BCY BCY BCY LF LF EA LF EA CF EA CF CY SF EA		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing	Lower Bank Protection Rijvrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Control - Steel Piles - Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Sw Waste Concrete - Walls - Build Forms Concrete - Walls - Bassemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6,196 6 118 187 64,196 737 24 24,536 9,297 4655 2,000 4 136,208	CY SY CY SY BCY BCY LF LF LF EA EA EA CY CY SF SF EA SF EA SF SF		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Volhoad Piles Steel Piles - Voltage Piles - Orthee Piles Steel Piles - Voltage Spiles Steel Piles - Orthee Piling Steel Piles - Orthee Piling Steel Piles - Orthee Piling Steel Piles - Orthee Piling Steel Piles - Orthee Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Build Forms Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pour	6,519 22,222 306 275 24,596 24,596 24,596 26,596 64,196 6 118 187 64,196 64,196 64,196 62,596 24,536 92,297 465 20,000 4 136,208 8,174	CY SY CY SY BCY BCY BCY BCY LF LF EA EA CA EA CY SF CY CY CY SY		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Voltoda Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Other Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Cut Offs Steel Piles - Furnish Grade Furnish Grade Concrete - Footing - Four Strip and Cure Concrete - Footing - Four Strip and Cure Concrete - Footing - 5% Waste Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Strip, Firs and Elevated Deck - 5% Waste	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6,196 6 118 187 64,196 737 24 24,536 9,297 4655 2,000 4 136,208	CY SY CY SY BCY BCY LF LF LF EA EA EA CY CY SF SF EA SF EA SF SF		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Volhoad Piles Steel Piles - Voltage Piles - Orthee Piles Steel Piles - Voltage Spiles Steel Piles - Orthee Piling Steel Piles - Orthee Piling Steel Piles - Orthee Piling Steel Piles - Orthee Piling Steel Piles - Orthee Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Build Forms Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pour	6,519 22,222 306 275 24,596 24,596 24,596 26,596 64,196 6 118 187 64,196 64,196 64,196 62,596 24,536 92,297 465 20,000 4 136,208 8,174	CY SY CY SY BCY BCY BCY BCY LF LF EA EA CA EA CY SF CY CY CY SY		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing oncrete - Walls	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Voltoda Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Other Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Cut Offs Steel Piles - Furnish Grade Furnish Grade Concrete - Footing - Four Strip and Cure Concrete - Footing - Four Strip and Cure Concrete - Footing - 5% Waste Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Strip, Firs and Elevated Deck - 5% Waste	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6 118 187 64,196 737 24 24,536 9,297 4655 2,000 4 136,208 8,174 409	CY CY SY CY SY BCY BCY BCY BCY LF LF EA EA CF CY CY CY CY CY CY CY CY CY CY CY CY CY		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing oncrete - Walls	Lower Bank Protection Rijvrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install Grade Control Geotextile - Furnish and Install Earthwork - Structural Excavation Earthwork	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6 118 187 64,196 737 24 24,536 9,297 4655 2,000 4 136,208 8,174 409	CY SY CY SY BCY BCY BCY LF LF EA EA EA CY EA CY SF CY SF SF SF CY SF SF CY SF SF CY SF SF SF CY SF SF CY SF SF CY SF SF SF CY SF SF SF CY SF SF SF CY SF SF SF SF CY SF SF SF SF SF SF SF SF CY SF SF SF SF SF SF SF SF SF SF SF SF SF		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing oncrete - Walls	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Verload Piles Steel Piles - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pur Concrete - Palis - Pour Concrete - Palis - Porms Concrete - Palis - Pour Concrete - Palis - Pour Concrete - Perl - Build Forms Concrete - Palis - Forms At Modify Forms	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6 118 187 64,196 6 737 24 24,536 9,297 465 2,000 4 136,208 8,174 409 4,000 4	CY SY CY SY BCY BCY BCY BCY LF EA EA EA CY SF EA CY CY SF EA CY CY SF EA EA		
Hydraulic Structure - She Ear Ag Ste	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing oncrete - Walls	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Valload Piles Steel Piles - Verde Spiles Steel Piles - Vorte Piling Steel Piles - Vorte Piling Steel Piles - Orthe Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Piles - Pour Rippi and Cure Concrete - Piles - Paul Groms Concrete - Piler - Assemble and Modify Forms Concrete - Pier - Assemble and Modify Forms Concrete - Pier - Form, Strip and Cure Concrete - Pier - Pour	6,519 22,222 306 275 24,596 24,596 24,596 26,196 6 118 187 64,196 737 24 24,536 9,297 465 2,000 4 136,208 8,174 409 4,000 4 17,084	CY SY CY SY BCY BCY BCY BCY LF LF LF EA EA CA EA CY SF CY SF CY CY CY CY CY SF EA SF CY SF EA SF CY SF EA SF CY SF EA SF SF SF EA SF SF SF SF SF EA SF		
Hydraulic Structure - She Ear Ag Ste Cor	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles poncrete - Footing oncrete - Walls	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Vulnoad Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Walls - Build Forms Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Sasemble and Modify Forms Concrete - Piles - Rosemble and Modify Forms Concrete - Piles - Rosemble and Modify Forms Concrete - Piles - Rosemble and Modify Forms Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Assemble and Modify Forms Concrete - Piles - Rosemble and Modify Forms Concrete - Piles - Piles - Pour Concrete - Piles - Rosemble and Modify Forms Concrete - Piles - Rosemble and Modify Forms	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6 118 187 64,196 64,196 737 24 24,536 24,596 20,000 4 136,208 8,174 409 4,000 4 17,084 844 42	CY SY CY SY BCY BCY BCY EA EA EA EA EA EA FEA FEA CY CY SF CY CY SF FEA SF CY CY CY SF FEA SF CY CY CY CY CY CY CY CY CY CY CY CY CY		
Hydraulic Structure - She Ear Ag Ste Cor	eyenne River - Structure rrhwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing oncrete - Walls	Lower Bank Protection Rijrap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Grade Control Rijrap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Valload Piles Steel Piles - Verde Spiles Steel Piles - Vorte Piling Steel Piles - Vorte Piling Steel Piles - Orthe Piling Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Piles - Pour Rippi and Cure Concrete - Piles - Pour Piling And Cure Concrete - Piles - Pour Strip and Cure Concrete - Piles - Paul Groms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Form, Strip and Cure Concrete - Piler - Form, Strip and Cure Concrete - Piler - Pour	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6,196 6 118 187 64,196 737 24 24,536 9,297 465 2,000 4 136,208 8,174 409 4,000 4 17,084 844 42 22,270	CY SY CY SY BCY BCY BCY BCY BCY LF EA EA EA CY SF CY SF CY CY CY CY CY CY CY CY CY CY CY CY CY		
Hydraulic Structure - She Ear Ag Ste Cor	eyenne River - Structure rthwork - Structural queduct Structure and Wingwalls eel Piles oncrete - Footing oncrete - Walls oncrete - Piers	Lower Bank Protection Riprap - Furnish and Install Lower Bank Protection Geotextile - Furnish and Install Grade Control Riprap - Furnish and Install Grade Control Riprap - Furnish and Install Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Weld Splices Steel Piles - Weld Splices Steel Piles - Weld Splices Steel Piles - Weld Splices Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Piling Steel Piles - Port Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Walls - Sambile and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Assemble and Modify Forms Concrete - Piler - Pour Concrete - Walls - Pour Concrete - Walls - Pour and Elevated Deck - 5% Waste Concrete - Piler - Form, Strip and Cure Concrete - Walls - Pour and Elevated Deck - 5% Waste Concrete - Walls - Pour Gonzere - Piler - Form Strip and Elevated Deck - 5% Waste Concrete - Walls - Pour Gonzere - Walls - Pour Gonzere - Piler - Form Strip and Elevated Deck - 5% Waste Concrete - Walls - Pour Gonzere - Walls - Pour Gonzere - Walls - Pour Gonzere - Piler - Form Strip and Elevated Deck - 5% Waste Concrete - Walls - Pour Gonzere - Walls - Pour Form Strip and Cure	6,519 22,222 306 275 24,596 24,596 24,596 24,596 6 118 187 64,196 64,196 737 24 24,536 24,596 20,000 4 136,208 8,174 409 4,000 4 17,084 844 42	CY SY CY SY BCY BCY BCY LF LF EA EA CA EA CY SF CY CY CY CY CY SF SF CY CY CY CY SF SF SF SF SF SF SF SF SF SF SF SF SF		

Estimate Framework and Quantities - LPP NOR				
Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	4,246,926	LB	
	Steel Reinforcement Bars - Hoist	4,246,926	LB	
Bridge Railing	Bridge Railing - Furnish and Install	2,400	LF	
 Sheet Piling	Sheet Piling - Furnish	16,196	SF	
	Sheet Piling - Unload Sheeting	11	EA	
	Sheet Piling - Set up Rig	8	EA	
	Sheet Piling - Drive Sheets	718	EA	
	Sheet Piling - Cut Sheets	1,436	EA	
Structural Aggregate Backfill	Structural Aggregate Backfill - Furnish and Install	10,718	ECY	
00.0-0	Aggregate Base - Class V - Furnish and Install	11,461	ECY	
	Aggregate base - class v - rumish and mistan	11,401	LCI	
Riprap	Select Granular Aggregate - Furnish and Install	5,500	CY	
	Riprap - Furnish and Install	11,000	CY	
Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
	Electrical - Miscellaneous	1	LS	
	Safety Features - Miscellaneous	1	LS	
		1		
	SCADA (Supervisory Control and Data Acquisition) System		LS	
	Ice Control Measure - Furnish and Install	1,000	LF	
	Debris Control Measure - Furnish and Install	200	LF	
	Debris Maintenance Equipment	1	LS	
	Equipment Storage Shed	5,000	SF	
Hydraulic Structure - Sheyenne River - Weir to Diversion				
 Earthwork - Structural	Earthwork - Structural Excavation	28,667	BCY	
 Editiiwork - Structurdi		28,667	BCY	
	Earthwork - Structural Haul			
 	Earthwork - Structural Levee Embankment	28,667	BCY	
 Sheet Piling	Sheet Piling - Furnish	98,880	SF	
	Sheet Piling - Unload Sheeting	180	EA	
	Sheet Piling - Set up Rig	6	EA	
	Sheet Piling - Drive Sheets	453	EA	
	Sheet Piling - Cut Sheets	907	EA	
Riprap	Select Granular Aggregate - Furnish and Install	9,556	CY	
 Піртар	Riprap - Furnish and Install	19,111	CY	
 Concrete - Walls	Concrete - Walls - Build Forms	500	SF	
	Concrete - Walls - Assemble and Modify Forms	2	EA	
	Concrete - Walls - Form, Strip and Cure	1,000	SF	
	Concrete - Walls - Pour	1,200	CY	
	Concrete - Walls, Piers and Elevated Deck - 5% Waste	60	CY	
Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	60,000	LB	
 Section of the section Steel Reinforcement Bars - Hoist	60,000	LB		
	Scentemorement bars - noist	00,000		
 U. d I'. Co As als B' C' W. d				
Hydraulic Structure - Maple River - Site Work				
				1
Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
	Site Preparation and Traffic Control Silt Fence - Furnish and Install	1 14,000	LS LF	
Site Preparation and Traffic Control				
Site Preparation and Traffic Control	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install	14,000 55,660	LF SY	
Site Preparation and Traffic Control	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins	14,000 55,660 15,333	LF SY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain	14,000 55,660 15,333 115	LF SY BCY LF	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing	14,000 55,660 15,333 115 15	LF SY BCY LF AC	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip	14,000 55,660 15,333 115 15 183,802	LF SY BCY LF AC BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strokpile	14,000 55,660 15,333 115 15 183,802 183,802	LF SY BCY LF AC BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strokpile Farthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	14,000 55,660 15,333 115 15 183,802 183,802 10,278	LF SY BCY LF AC BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strokpile	14,000 55,660 15,333 115 15 183,802 183,802	LF SY BCY LF AC BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strokpile Farthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	14,000 55,660 15,333 115 15 183,802 183,802 10,278	LF SY BCY LF AC BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60	LF SY BCY LF AC BCY BCY BCY BCY BCY BCY DAY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800	LF SY BCY LF AC BCY BCY BCY BCY BCY BCY ECY DAY SF	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Ströp Topsoil - Ströp Topsoil - Ströp Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4	LF SY BCY LF AC BCY BCY BCY BCY BCY BCY BCY BCY SC ECY DAY SF EA	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class Y - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Set up Rig Sheet Piling - Set up Rig	14,000 55,660 15,333 115 15 183,802 10,278 9,509 60 4,800 4	LF SY BCY LF AC BCY BCY BCY BCY ECY DAY SF EA	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strop Tops	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107	LF SY BCY LF AC BCY BCY BCY BCY BCY SF EA EA EA	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Luload Sheeting Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Drive Sheets Sheet Piling - Cut Sheets	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214	LF SY BCY LF AC BCY BCY BCY BCY BCY BCY SF EA EA EA	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Ste tu Pilig Sheet Piling - Ste tu Pilig Sheet Piling - Cut Sheets Sheet Piling - Cut Sheets Sheet Piling - Cut Sheets Control of Water	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214	LF SY BCY LF AC BCY BCY BCY BCY BCY ECY DAY SF EA EA EA EA LS	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strotp Topsoil - Strotp Topsoil - Strotp Topsoil - Strotp Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Tyre Sheets Sheet Piling - Un'ove Sheets Sheet Piling - Ou're Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187	LF SY BCY LF AC BCY BCY BCY BCY DAY SF EA EA EA LS BCY SY BCY DAY LS EA EA EA EA EA EA EA EA EA EA EA EA EA	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Ste tu Pilig Sheet Piling - Ste tu Pilig Sheet Piling - Cut Sheets Sheet Piling - Cut Sheets Sheet Piling - Cut Sheets Control of Water	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214	LF SY BCY LF AC BCY BCY BCY BCY BCY ECY DAY SF EA EA EA EA LS	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strotp Topsoil - Strotp Topsoil - Strotp Topsoil - Strotp Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Tyre Sheets Sheet Piling - Un'ove Sheets Sheet Piling - Ou're Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187	LF SY BCY LF AC BCY BCY BCY BCY DAY SF EA EA EA LS BCY SY BCY DAY LS EA EA EA EA EA EA EA EA EA EA EA EA EA	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Drive Sheets Sheet Piling - Cort Sheets Sheet Piling - Curt Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	14,000 55,660 15,333 115 15 183,802 183,802 19,509 60 4,800 4 2 107 214 1 4,187 4,187	LF SY BCY LF AC BCY BCY BCY DAY SF EA EA EA LS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strip Topsoil - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Tyrenish Material Sheet Piling - Orive Sheets Sheet Piling - Curt Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	14,000 55,660 15,333 115 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187	LF SY BCY LF AC BCY BCY BCY DAY SF EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Strokpile Topsoil - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Orive Sheets Sheet Piling - Orive Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Sewaveta and Haul	14,000 55,660 15,333 115 15 183,802 183,802 19,778 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 1,168,454	LF SY BBCY LF EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Set up Rig Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Court Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levea Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187	LF SY BCY LF BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class Y - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unioad Sheeting Sheet Piling - Ste tu Pilig Sheet Piling - Unioad Sheeting Sheet Piling - Ste Un Pilig Sheet Piling - Unioad Sheeting Sheeting - Unioad Shee	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187 1,168,454 1,168,454 1,168,454 1,168,454	LF SY BCY LF AC BCY BCY BCY BCY ECY DAY SF EA EA EA EA LS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Topsoil - Stroip Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Set up Rig Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Court Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Levea Embankment Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187	LF SY BCY LF BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Unload Sheeting Sheet Piling - Strokens Sheet Piling - Strokens Sheet Piling - Strokens Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	14,000 55,660 15,333 115 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,188 1,168,454 1,168,454 1,148,454 20,000	LE SY BCY BCY BCY BCY BCY BCY BCY BCY BCY BC	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class Y - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unioad Sheeting Sheet Piling - Ste tu Pilig Sheet Piling - Unioad Sheeting Sheet Piling - Ste Un Pilig Sheet Piling - Unioad Sheeting Sheeting - Unioad Shee	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187 1,168,454 1,168,454 1,168,454 1,168,454	LF SY BCY LF AC BCY BCY BCY BCY ECY DAY SF EA EA EA EA LS BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Strip Topsoil - Strokpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Unload Sheeting Sheet Piling - Set up Rig Sheet Piling - Set up Rig Sheet Piling - Orive Sheets Sheet Piling - Unload Sheeting Sheet Piling - Strokens Sheet Piling - Strokens Sheet Piling - Strokens Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	14,000 55,660 15,333 115 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,188 1,168,454 1,168,454 1,148,454 20,000	LE SY BCY BCY BCY BCY BCY BCY BCY BCY BCY BC	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strotpl Topsoil - Strotpl Topsoil - Strotpl Topsoil - Strotpl Topsoil - Strotpl Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Court Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Exeavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Exeavate mankenet Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	14,000 55,660 15,333 115 15 183,802 183,802 19,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,188 2,106,454 1,148,454 20,000 216,898 216,898	LF SY BCY LF AC BCY BCY CC BCY DAY SF EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silf Ence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silf Curtain Clearing and Grubbing Topsoil - Stockpile Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Ste tu pilig Sheet Piling - Unioad Sheeting Sheet Piling - Orve Sheets Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Orve Sheets Sheet Piling - Unioad Sheeting Sheet Piling - Unioad Sheeting Sheet Piling - Orve Sheets Sheet Piling - Unioad Sheeting Sheet Piling - Orve Sheets Sheet Piling - Orve Sheets Sheet Piling - Unioad Sheeting Sheeting - Unioad Sheeting Sheeting - Unioad Sheeting Sheeting - Unioad Sheeting - Unio	14,000 55,660 15,333 115 15 183,802 183,802 10,278 9,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187 1,168,454 1,168,454 1,148,454 1,148,454 1,148,454 20,000 216,898 216,898	LF SY BCY LF AC BCY BCY BCY BCY BCY BCY BCY BCY BCY BC	
Site Preparation and Traffic Control Temporary Erosion and Sedimentation Control Clearing and Grubbing Strip and Stockpile Topsoil Temporary Haul Roads Coffering - Steel Sheet pile Embankment - Temporary Levee	Silt Fence - Furnish and Install Erosion Control Blanket - Furnish and Install Temporary Sedimentation Basins Floating Silt Curtain Clearing and Grubbing Topsoil - Strotpl Topsoil - Strotpl Topsoil - Strotpl Topsoil - Strotpl Topsoil - Strotpl Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment Aggregate Base - Class V - Furnish and Install Haul Road Maintenance Sheet Piling - Furnish Material Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Unload Sheeting Sheet Piling - Court Sheets Sheet Piling - Cut Sheets Control of Water Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Exeavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Exeavate mankenet Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	14,000 55,660 15,333 115 15 183,802 183,802 19,509 60 4,800 4 2 107 214 1 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,187 4,188 2,106,454 1,148,454 20,000 216,898 216,898	LF SY BCY LF AC BCY BCY CC BCY DAY SF EA EA EA EA EA EA BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	

Earthwork - Type 3 Oxidized Brenna - Haul 247,986 BCY	
Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content 247,986 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Compact and Manage Moisture Content 0 BCY	
Control Type Common Compact and manage module Common Commo	
Earthwork - Haul From No-Spoil Areas 1,613,338 BCY	
Dewatering and Control of Water Dewatering and Control of Water 30 DAY	
Temporary Storm Sewer Pipe 300 LF	
Control of Water 1 LS	
Electrical Utilities Electrical Utilities 4,500 LF	
Channel Grade Control System Channel Grade Control System 1 LS	
Restore Local Roadways Restore Local Haul Roadways - Aggregate Surfacing 2.0 Mile	
Restore Local Haul Roadways - Bituminous Surfacing 1.0 Mile	
Dust Control Dust Control 60 DAY	
Topsoil Placement Topsoil - Install from Stockpile 183,802 BCY	
Site Restoration Seeding 115 AC	
Straw Mulch and Disk Anchoring 115 AC	
Vegetation Establishment and Maintenance 115 AC	
Miscellaneous Features Signage 1 LS	
Chain link Fence 2,000 LF	
Fence Vehicle Gates 4 EA	
Snow Removal Snow Removal 640 HOURS	
Excavation and Embankment - Channel - Lower Bank Protection	
Riprap Excavation Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul 0 BCY	
Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil 0 BCY	
Earthwork: Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content 0 BCY	
Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul 0 BCY	
Earthwork - Type 2 Saturated Non-Brenna - Spoil 0 BCY	
Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content 0 BCY	
Earthwork - Type 3 Oxidized Brenna - Excavate 6,824 BCY	
Earthwork - Type 3 Oxidized Brenna - Haul 6,824 BCY Earthwork - Type 3 Oxidized Brenna - Spoil 6,824 BCY	
Earthwork - Type 3 Oxidized Brenna - Spoil 6,824 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY Earthwork - Type 4 Brenna - Haul 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY Earthwork - Type 4 Brenna - Hould 0 BCY Earthwork - Type 4 Brenna - Spoil 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY Earthwork - Type 4 Brenna - Haul 0 BCY Earthwork - Type 4 Brenna - Spoil 0 BCY Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
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Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
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Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Sarthwork - Type 4 Brema - Excavate 0 0 8CY	number of piles 2149
Earthwork - Type 4 Brenna - Escavate 0 6CY	number of piles 2149
Earthwork - Type 8 Brema - Excavate 0 8CY	number of piles 2149
Earthwork - Type & Brenna - Steawate 0 8CY	number of piles 2149
Earthwork - Type & Brenna - Excavate 0 8CY	number of piles 2149
Earthwork - Type 4 Bernan - Startute 0 8CY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Escavate 0 BCY	number of piles 2149
Earthwork - Type 4 Brenna - Excavate 0 BCY	number of piles 2149

	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	4,361,982	LB	
		Steel Reinforcement Bars - Hoist	4,361,982	LB	
	Bridge Railing	Bridge Railing - Furnish and Install	2,400	LF	
	Sheet Piling	Sheet Piling - Furnish	16,740	SF	
		Sheet Piling - Unload Sheeting	12	EA	
		Sheet Piling - Set up Rig	8	EA	
		Sheet Piling - Drive Sheets	718	EA	
		Sheet Piling - Cut Sheets	0	EA	
	Structural Aggregate Backfill	Structural Aggregate Backfill - Furnish and Install	10,290	ECY	<u> </u>
	Structural Aggregate backlin	Aggregate Base - Class V - Furnish and Install	11,461	ECY	
		Aggregate base - Class V - Fulfish and histan	11,401	ECT	
	a:		4,944	CY	
	Riprap	Select Granular Aggregate - Furnish and Install			
		Riprap - Furnish and Install	9,889	CY	
	Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
		Electrical - Miscellaneous	1	LS	
		Safety Features - Miscellaneous	1	LS	
		SCADA (Supervisory Control and Data Acquisition) System	1	LS	
		Ice Control Measure - Furnish and Install	1,000	LF	1
		Debris Control Measure - Furnish and Install	200	LF	
		Debris Maintenance Equipment	1	LS	
		Equipment Storage Shed	5,000	SF	
		Winter Channel Heating Coil System	1	LS	
LL. de	aulic Structure - Maple River - Weir to Diversion			-	
Hyar					
	Earthwork - Structural	Earthwork - Structural Excavation	24,833	BCY	
		Earthwork - Structural Haul	24,833	BCY	
		Earthwork - Structural Levee Embankment	24,833	BCY	
	Sheet Piling	Sheet Piling - Furnish	74,160	SF	
		Sheet Piling - Unload Sheeting	100	EA	
	T	Sheet Piling - Set up Rig	5	EA	
		Sheet Piling - Drive Sheets	680	EA	
		Sheet Piling - Cut Sheets	340	EA	
	Riprap	Select Granular Aggregate - Furnish and Install	8,278	CY	
	- Improp	Riprap - Furnish and Install	16,556	CY	
	Concrete Walls		400	SF	
	Concrete - Walls	Concrete - Walls - Build Forms			
		Concrete - Walls - Assemble and Modify Forms	1	EA	
		Concrete - Walls - Form, Strip and Cure	800	SF	
		Concrete - Walls - Pour	440	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	22	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	22,000	LB	
		Steel Reinforcement Bars - Hoist	22,000	LB	
Hvdr	aulic Structure - Lower Rush River - Site Work				
	Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
				LF	
	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	1,500		
		Erosion Control Blanket - Furnish and Install	12,100	SY	
		Temporary Sedimentation Basins	6,700	BCY	
		Floating Silt Curtain	0	LF	
	Clearing and Grubbing	Clearing and Grubbing	7	AC	
	Strip and Stockpile Topsoil	Topsoil - Strip	185,214	BCY	
		Topsoil - Stockpile	185,214	BCY	
	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	3,289	BCY	1
	Temporary Hauri (UdUS	Aggregate Base - Class V - Furnish and Install	1,170	ECY	
				DAY	
		Haul Road Maintenance	30		
	Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	2,667	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,667	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	2,667	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,667	BCY	
	Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	178,630	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	178,630	BCY	1
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	158,630	BCY	1
			20,000	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	20,000	DUT	
	ı				
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	155,500	BCY	
					1
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	155,500	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	155,500 155,500	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content			
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	155,500	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	155,500 0	BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 3 Oxidized Brenna - Excavate	155,500 0 390,749	BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	155,500 0 390,749 390,749	BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	155,500 0 390,749 390,749 390,749	BCY BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	155,500 0 390,749 390,749	BCY BCY BCY BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	155,500 0 390,749 390,749 390,749	BCY BCY BCY BCY BCY	

Exhibit - Construction Cost Estim	ate Framework and Quantities - LPP NORTH DAKO				
		Earthwork - Type 4 Brenna - Excavate	2,364	BCY	
		Earthwork - Type 4 Brenna - Haul	2,364	BCY	
		Earthwork - Type 4 Brenna - Spoil	2,364	BCY	
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	2,364	BCY	
		Earthwork - Haul From No-Spoil Areas	707,243	BCY	
	Dewatering and Control of Water	Dewatering and Control of Water	15	DAY	
		Temporary Storm Sewer Pipe	150	LF	
		Control of Water	1	LS	
	Electrical Utilities	Electrical Utilities	1,600	LF	
	Channel Grade Control System	Channel Grade Control System	0	LS	
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	0.5	Mile	
	nestore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing	0.3	Mile	
	Dust Control	Dust Control	30	DAY	
	Topsoil Placement	Topsoil - Install from Stockpile	185,214	BCY	
	Site Restoration	Seeding	115	AC	
		Straw Mulch and Disk Anchoring	115	AC	
		Vegetation Establishment and Maintenance	115	AC	
	Miscellaneous Features	Signage	1	LS	
		Chain link Fence	1,000	LF	
		Fence Vehicle Gates	2	EA	
	Snow Removal	Snow Removal	320	HOURS	
	Excavation and Embankment - Channel - Lower Bank Protection				
	Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	
	r or	Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Hauf	0	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Excavate	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Haul	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 4 Brenna - Excavate	3,412	BCY	
		Earthwork - Type 4 Brenna - Haul	3,412	BCY	
		Earthwork - Type 4 Brenna - Spoil	3,412	BCY	
		Earthwork - Type 4 Brenna - Semi Compact and Manage Moisture Content	3,412	BCY	
	Low Flow Channel and Lower Bank Protection	Lower Bank Protection Riprap - Furnish and Install	3,259	CY	
		Lower Bank Protection Geotextile - Furnish and Install	11,111	SY	
		Grade Control Riprap - Furnish and Install	153	CY	
		Grade Control Geotextile - Furnish and Install	138	SY	
	ydraulic Structure - Lower Rush - Structure				
···			5 500	200	
	Earthwork - Structural	Earthwork - Structural Excavation	6,600	BCY	
		Earthwork - Structural Haul	6,600	BCY	
		Earthwork - Structural Embankment	6,600	BCY	
	Drop Structure and Walls				
	Steel Piles	Steel Piles - Furnish Material	59,804	LF	
		Steel Piles - Set up Rig	4	EA	
		Steel Piles - Unload Piles	110	EA	
		Steel Piles - Weld Splices	430	EA	
		Steel Piles - Drive Piling	59,804	LF	
		Steel Piles - Cut Offs	430	EA	
		Steel Piles - Pile Test	12	EA	
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	12,000	SF	
	Concrete - Looting	Concrete - Footing - Four	5,890	CY	
			295	CY	
		Concrete - Footing - 5% Waste			
	Concrete - Walls	Concrete - Walls - Build Forms	18,677	SF	
		Concrete - Walls - Assemble and Modify Forms	4	EA	
		Concrete - Walls - Form, Strip and Cure	37,353	SF	
		Concrete - Walls - Pour	2,057	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	103	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	1,029,960	LB	
		Steel Reinforcement Bars - Hoist	1,029,960	LB	
	Bridge Railing	Bridge Railing - Furnish and Install	0	LF	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	2,081	ECY	
			,		
	Riprap	Select Granular Aggregate - Furnish and Install	1,500	CY	
	Improp	Riprap - Furnish and Install	3.000	CY	
	Fish Dossago Sustam		104,000	SF	
	Fish Passage System	Fish Passage System - Furnish and Install			
	Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
		Electrical - Miscellaneous	1	LS	
		Safety Features - Miscellaneous	1	LS	

		Debris Maintenance Equipment	0	LS	
		Equipment Storage Shed	2,500	SF	
 		Equipment storage since	2,500	- J	
	Illudeadia Charatana Dueb Direct Cita Manta				
 	Hydraulic Structure - Rush River - Site Work				
	Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
<u> </u>	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	1,500	LF	
		Erosion Control Blanket - Furnish and Install	12,100	SY	
		Temporary Sedimentation Basins	6,700	BCY	
		Floating Silt Curtain	0	LF	
	Clearing and Grubbing	Clearing and Grubbing	7	AC	
	Strip and Stockpile Topsoil	Topsoil - Strip	186,054	BCY	
	Strip and Stockpile Topson	Topsoil - Stockpile	186,054	BCY	
<u> </u>					
	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	10,278	BCY	
		Aggregate Base - Class V - Furnish and Install	3,657	ECY	
		Haul Road Maintenance	30	DAY	
	Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	2,667	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,667	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	2,667	BCY	
 		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,667	BCY	
					
<u> </u>	Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	233,197	BCY	
<u> </u>		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	233,197	BCY	
I		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	213,197	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	20,000	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	200,327	BCY	
 		Earthwork - Type 2 Saturated Non-Brenna - Spoil	200,327	BCY	
 				BCY	
-		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	200,327		
 		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Excavate	150,290	BCY	
		Earthwork - Type 3 Oxidized Brenna - Haul	150,290	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil	150,290	BCY	
 		Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	150,290	BCY	
		Editarion - Type 3 Oxidized Drenna - Senii Compact and Manage Moisture Content	130,230	501	
 					
<u> </u>		Earthwork - Type 4 Brenna - Excavate	114,742	BCY	
		Earthwork - Type 4 Brenna - Haul	114,742	BCY	
		Earthwork - Type 4 Brenna - Spoil	114,742	BCY	
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	114,742	BCY	
		, , , , , , , , , , , , , , , , , , ,		1 "	
		Earthwork - Haul From No-Spoil Areas	678,556	BCY	
 	Dewatering and Control of Water	Dewatering and Control of Water	15	DAY	
 	Dewatering and Control of Water				
 		Temporary Storm Sewer Pipe	150	LF	
		Control of Water	1	LS	
	Electrical Utilities	Electrical Utilities	5,280	LF	
	Channel Grade Control System	Channel Grade Control System	0	LS	
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	0.5	Mile	
		Restore Local Haul Roadways - Bituminous Surfacing	0.3	Mile	
 	Dust Control	Dust Control	30	DAY	
 					
 	Topsoil Placement	Topsoil - Install from Stockpile	186,054	BCY	
 	Site Restoration	Seeding	115	AC	
		Straw Mulch and Disk Anchoring	115	AC	
		Vegetation Establishment and Maintenance	115	AC	
	Miscellaneous Features	Signage	1	LS	
		Chain link Fence	1,000	LF	
<u> </u>		Fence Vehicle Gates	2	EA	
	Snow Removal	Snow Removal	320	HOURS	
 			320	HOURS	
	Excavation and Embankment - Channel - Lower Bank Prote			lacy	
	Riprap Excavation	Earthwork -Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
			0	BCY BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul			
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil	0 0	BCY BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0 0 0	BCY BCY BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate	0 0 0 0	BCY BCY BCY BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul	0 0 0 0	BCY BCY BCY BCY BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	0 0 0 0 0	BCY BCY BCY BCY BCY BCY BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	0 0 0 0	BCY BCY BCY BCY BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0 0 0 0 0	BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Prenna - Excavate	0 0 0 0 0 0 0 0 0 3,412	BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul	0 0 0 0 0 0 0 0 0 3,412 3,412	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul Earthwork - Type 4 Brenna - Spoil	0 0 0 0 0 0 0 0 3,412 3,412 3,412	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	
	Low Flow Channel and Lower Bank Protection	Earthwork -Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 2 Saturated Non-Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Excavate Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content Earthwork - Type 4 Brenna - Excavate Earthwork - Type 4 Brenna - Haul	0 0 0 0 0 0 0 0 0 3,412 3,412	BCY BCY BCY BCY BCY BCY BCY BCY BCY BCY	

		work and Quantities - LPP NORTH	Grade Control Riprap - Furnish and Install	153	CY	
			Grade Control Riprap - Furnish and Install Grade Control Geotextile - Furnish and Install	153	SY	
	Hydraulic Chryst	ure - Rush - Structure	Grade Control Geolexine - Furnish and histan	130	31	
	Hydraulic Structi		Fash and Company Francisco	7 200	DCV	
		Earthwork - Structural	Earthwork - Structural Excavation Earthwork - Structural Haul	7,300 7,300	BCY	
			Earthwork - Structural Haul	7,300	BCY	
		Drop Structure and Walls	Earthwork - Structural Embankment	7,300	BCT	
		Steel Piles	Steel Piles - Furnish Material	58,177	LF	
		Steel Files	Steel Piles - Set up Rig	4	EA	
				107	EA	
			Steel Piles - Unload Piles			
			Steel Piles - Weld Splices	436	EA	
			Steel Piles - Drive Piling	58,177	LF	
			Steel Piles - Cut Sheets	436	EA	
			Steel Piles - Pile Test	12	EA	
		Concrete - Footing	Concrete - Footing - Form Strip and Cure	11,932	SF	
			Concrete - Footing - Pour	6,335	CY	
			Concrete - Footing - 5% Waste	317	CY	
		Concrete - Walls	Concrete - Walls - Build Forms	2,000	SF	
			Concrete - Walls - Assemble and Modify Forms	4	EA	
			Concrete - Walls - Form, Strip and Cure	46,742	SF	
			Concrete - Walls - Pour	2,578	CY	
			Concrete - Walls, Piers and Elevated Deck - 5% Waste	129	CY	
		Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	1,153,781	LB	
			Steel Reinforcement Bars - Hoist	1,153,781	LB	
		Bridge Railing	Bridge Railing - Furnish and Install	0	LF	
		Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	2,500	ECY	
		Riprap	Select Granular Aggregate - Furnish and Install	1,700	CY	
			Riprap - Furnish and Install	3,300	CY	
		Fish Passage System	Fish Passage System - Furnish and Install	71,000	SF	
		Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
			Electrical - Miscellaneous	1	LS	
			Safety Features - Miscellaneous	1	LS	
			SCADA (Supervisory Control and Data Acquisition) System	1	LS	
			Debris Maintenance Equipment	0	LS	
			Equipment Storage Shed	2,000	SF	
			Equipment storage snee	2,000	- 31	
	Undraulia Struct	ure - Large Drain Structure (1)				
	Trydraulic Structi					
	1	Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	12,000	BCY	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	12,000	BCY	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	12,000 12,000	BCY BCY	
		Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	12,000	ВСҮ	
		Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms	12,000 5,625	BCY SF	
		Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms	12,000 5,625 1	BCY SF EA	
		Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure	12,000 5,625 1 5,625	BCY SF EA SF	
		Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour	12,000 5,625 1 5,625 375	BCY SF EA SF CY	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour	12,000 5,625 1 5,625 375 19	BCY SF EA SF CY CY	
		Concrete - Walls Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Piour	12,000 5,625 1 5,625 375 19 56,250	BCY SF EA SF CY CY LBS	
		Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Strip and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist	12,000 5,625 1 5,625 375 19 56,250 56,250	BCY SF EA SF CY CY LBS LBS	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 1,195	BCY SF EA SF CY CY LBS LBS SY	
		Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Strip and Elevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist	12,000 5,625 1 5,625 375 19 56,250 56,250	BCY SF EA SF CY CY LBS LBS	
		Steel Reinforcement Bars Erosion Protection	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 1,195	BCY SF EA SF CY CY LBS LBS SY	
	Hydraulic Struct	Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 1,195	BCY SF EA SF CY CY LBS LBS SY	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 1,195	BCY SF EA SF CY CY LBS LBS SY	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 1,195	BCY SF EA SF CY CY LBS LBS SY	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2)	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	12,000 5,625 1 5,625 375 19 56,250 56,250 1,195 796	BCY SF EA SF CY CY LBS LBS CY CY LBS LBS SY CY CY CY LBS	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2)	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour	12,000 5,625 1 1,5,625 375 19 56,250 56,250 1,195 796	BCY SF EA SF CY CY CY CY CY CY CY BSS SY CY BCY B	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Sexemble - Sexemble	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796	BCY SF EA SF CY CY LBS SY CY CY BS SY CY BCY BCY BCY	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2)	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete -	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000	BCY SF EA SF CY CY LBS SY CY BCY BCY BCY BCY SF	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms	12,000 5,625 1 1,5,625 375 19 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000	BCY SF EA SF CY LBS SY CY BCY SF CY SF CY SF SF SF SF SF SF SF SF SF SF SF BCY BCY SF EA	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Four Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Hoist Geotextille Fabric - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 1,000	BCY SF EA SF CY LBS LBS SY CY CY SF EA BCY BCY BCY SF EA	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Also Includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Sexil Compact and Manage Moisture Content Concrete - Walls - Builf Forms Concrete - Walls - Furnish Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure	12,000 5,625 1 1,5,625 375 19 56,250 1,195 796 12,000 12,000 12,000 13,000 3,000 200	BCY SF EA SF CY CY LBS SY CY BCY BCY BCY BCY SF EA SF EA	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Saxemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Form, Strip and Cure Concrete - Walls - Porm, Strip and Cure Concrete - Walls - Porm, Strip and Cure Concrete - Walls - Porm, Strip and Cleveted Deck - 5% Waste	12,000 5,625 1 1,5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000 1 1 3,000 200	BCY SF EA SF CY CY LBS SY CY CY BCY BCY BCY SF EA SF CY CY CY CY CY	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Horist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Furnish, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Bars - Eurish and Install	12,000 5,625 1 1,5,625 375 19 56,250 1,195 796 12,000 12,000 12,000 12,000 13,000 10 30,000	BCY SF EA SF CY CY LBS SSY CY BCY BCY BCY BCY BCY BC	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Sexemble - Sexem	12,000 5,625 1 1,5,625 375 19 56,250 56,250 1,195 796 12,000 12,000 12,000 1,000 3,000 10 30,000 30,000	BCY SF EA SF CY LBS SY CY BCY BCY BCY BCY BCY BCY BCY BCY BC	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Horist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Furnish, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Bars - Eurish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000 10 30,000 30,000 30,000 30,000 30,000 590	BCY SF EA SF CY UBS SY CY BCY BCY BCY BCY BCY BCY BCY SF EA SF CY SF EA SF CY CY CY SF EA SF SF SF SF SF SF SF SF SF SF SF SF SF	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Sexemble - Sexem	12,000 5,625 1 1,5,625 375 19 56,250 56,250 1,195 796 12,000 12,000 12,000 1,000 3,000 10 30,000 30,000	BCY SF EA SF CY LBS SY CY BCY BCY BCY BCY BCY BCY BCY BCY BC	
	Hydraulic Struct	Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls Steel Reinforcement Bars	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Escavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Saxemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Saxeman - Semi Compact and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000 10 30,000 30,000 30,000 30,000 30,000 590	BCY SF EA SF CY UBS SY CY BCY BCY BCY BCY BCY BCY BCY SF EA SF CY SF EA SF CY CY CY SF EA SF SF SF SF SF SF SF SF SF SF SF SF SF	
		Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls Steel Reinforcement Bars Erosion Protection	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Escavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Saxemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Saxeman - Semi Compact and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000 10 30,000 30,000 30,000 30,000 30,000 590	BCY SF EA SF CY UBS SY CY BCY BCY BCY BCY BCY BCY BCY SF EA SF CY SF EA SF CY CY CY SF EA SF SF SF SF SF SF SF SF SF SF SF SF SF	
		Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls Steel Reinforcement Bars Erosion Protection ure - Side Channel Inlet 1X72" (19)	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Build Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Semi delevated Deck - 5% Waste Steel Reinforcement Bars - Furnish and Install Steel Reinforcement Bars - Furnish and Install Riprap - Furnish and Install Riprap - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 1,195 796 12,000 12,000 12,000 3,000 1 3,000 200 30,000	BCY SF EA SF CY CY LBS SSY CY BCY BCY BCY BCY BCY BCY	
		Steel Reinforcement Bars Erosion Protection ure - Small Drain Structure (2) Excavation and Embankment - Channel Concrete - Walls Steel Reinforcement Bars Erosion Protection	Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Sexemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Riprap - Furnish and Install Also includes 1 new small drain structure at RRN Control Structure Earthwork - Type 1 Non-Saturated Non-Brenna - Escavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content Concrete - Walls - Build Forms Concrete - Walls - Saxemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Saxeman - Semi Compact and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install Steel Reinforcement Bars - Hoist Geotextile Fabric - Furnish and Install	12,000 5,625 1 5,625 375 19 56,250 56,250 56,250 1,195 796 12,000 12,000 12,000 3,000 10 30,000 30,000 30,000 30,000 30,000 590	BCY SF EA SF CY UBS SY CY BCY BCY BCY BCY BCY BCY BCY SF EA SF CY SF EA SF CY CY CY SF EA SF SF SF SF SF SF SF SF SF SF SF SF SF	

Exhibit - Construction Cost	Estimate Framework and Quantities - LPP NORTH D				
	Manhole	96" Reinforced Concrete Manhole	589	LF	
		72" Reinforced Concrete Pipe	4,750	LF	
	Concrete - Walls	Concrete - Walls - Build Forms	22,800	SF	
		Concrete - Walls - Assemble and Modify Forms	19	EA	
		Concrete - Walls - Form, Strip and Cure	22,800	SF	
		Concrete - Walls - Pour	1,520	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	76	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	228,000	LBS	
		Steel Reinforcement Bars - Hoist	228,000	LBS	
	Erosion Protection	Geotextile Fabric - Furnish and Install	2,071	SY	
		Riprap - Furnish and Install	1,026	CY	
	Gates	72" Flap Gates	19	EA	
	Hydraulic Structure - Side Channel Inlet 2X72" (7)				
	Excavation and Embankment - Channel	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	84,000	BCY	
	Excavation and Embankment - Channel				
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	84,000	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	84,000	BCY	
	Manhole	96" Reinforced Concrete Manhole	434	LF	
		72" Reinforced Concrete Pipe	3,640	LF	
	Concrete - Walls	Concrete - Walls - Build Forms	11,025	SF	
		Concrete - Walls - Assemble and Modify Forms	7	EA	
		Concrete - Walls - Form, Strip and Cure	11,025	SF	
		Concrete - Walls - Pour	735	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	37	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	110,250	LBS	
	Steer Neillioternent Data	Steel Reinforcement Bars - Hoist	110,250	LBS	
	Erosion Protection	Geotextile Fabric - Furnish and Install	805	SY	
	Erosion Protection		406	CY	
		Riprap - Furnish and Install	14		
	Gates	72" Flap Gates	14	EA	
	Hydraulic Structure - Outlet to Red River of the North - Site Work				
	Site Preparation and Traffic Control	Site Preparation and Traffic Control	1	LS	
	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	3,000	LF	
		Erosion Control Blanket - Furnish and Install	24,000	SY	
		Temporary Sedimentation Basins	6,700	BCY	
		Floating Silt Curtain	1,000	LF	
	Clearing and Grubbing	Clearing and Grubbing	25	AC	
	Strip and Stockpile Topsoil	Topsoil - Strip	81,172	BCY	
	Strip und Stockpile ropson	Topsoil - Stockpile	81,172	BCY	
	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCY	
	Temporary Hadi Noads	Aggregate Base - Class V - Furnish and Install	0	ECY	
		Haul Road Maintenance	0	DAY	
	Factories Tourist Tour				
	Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	0	BCY	
	Excavation and Embankment - Channel Realignment	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	461,716	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	461,716	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	441,716	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	20,000	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	88,117	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	88,117	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	88,117	BCY	
		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	0	BCY	
		B. C.			
		Earthwork - Type 3 Oxidized Brenna - Excavate	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Haul	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Haul Earthwork - Type 3 Oxidized Brenna - Spoil	0	BCY	
		Earthwork - Type 3 Oxidized Brenna - Spoil Earthwork - Type 3 Oxidized Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Lartiwork - Type 5 Oxidized Brenna - Senii Compact and Manage Moisture Content	U	DC1	
		Earthwork Time A Bronza - Evolunto	72.915	BCY	
		Earthwork - Type 4 Brenna - Excavate			
		Earthwork - Type 4 Brenna - Haul	72,915	BCY	
		Earthwork - Type 4 Brenna - Spoil	72,915	BCY	
		Earthwork - Type 4 Brenna - Compact and Manage Moisture Content	72,915	BCY	
		Earthwork - Haul From No-Spoil Areas	602,748	BCY	
	Dewatering and Control of Water	Dewatering and Control of Water	120	DAY	
		Temporary Storm Sewer Pipe	100	LF	
		Control of Water	1	LS	
	Electrical Utilities		5,000	LS LF	
	Electrical Utilities Restore Local Roadways	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing	5,000 2.0		

xnibit - Construction Cost Estimate	Framework and Quantities - LPP NOR				
		Restore Local Haul Roadways - Bituminous Surfacing	1.0	Mile	
	Dust Control	Dust Control	30	DAY	
	Topsoil Placement	Topsoil - Install from Stockpile	81,172	BCY	
	Site Restoration	Seeding	50	AC	
		Straw Mulch and Disk Anchoring	50	AC	
		Vegetation Establishment and Maintenance	50	AC	
	Miscellaneous Features	Signage	1	LS	
		Chain link Fence	1,000	LF	
		Fence Vehicle Gates	2	EA	
	Snow Removal	Snow Removal	1,000	HOURS	
Hudrau	lic Structure - Outlet to Red River of the North - Struct		1,000	HOURS	
nyurau					
	Earthwork - Structural	Earthwork - Structural Excavation	7,000	BCY	
		Earthwork - Structural Haul	7,000	BCY	
		Earthwork - Structural Embankment	7,000	BCY	
	Embankment - Temporary Levee	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	4,000	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	4,000	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	4,000	BCY	
	Temporary Haul Roads	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,000	BCY	
		Aggregate Base - Class V - Furnish and Install	3,400	ECY	
		Haul Road Maintenance	60	DAY	
	Concrete Rollway Structure	TOWN TOWN AND INCOME.	00	UNI I	
		Steel Piles - Furnish Material	35,456	LF	
	Steel Piles				
		Steel Piles - Set up Rig	3	EA	
		Steel Piles - Unload Piles	65	EA	
		Steel Piles - Weld Splices	554	EA	
		Steel Piles - Drive Piling	35,456	LF	
		Steel Piles - Cut Offs	0	EA	
		Steel Piles - Pile Test	0	EA	
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	2,080	SF	
		Concrete - Footing - Pour	1,944	CY	
		Concrete - Footing - 5% Waste	97	CY	
	Concrete - Piers	Concrete - Pier - Build Forms	2,500	SF	
	Concrete - Fiers	Concrete - Pier - Assemble and Modify Forms	4	EA	
			16,110	SF	
		Concrete - Pier - Form, Strip and Cure			
		Concrete - Pier - Pour	6,769	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	338	CY	
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	585,851	LB	
		Steel Reinforcement Bars - Hoist	585,851	LB	
	Bridge Railing	Bridge Railing - Furnish and Install	0	LF	
	Sheet Piling	Sheet Piling - Furnish	2,500	SF	
		Sheet Piling - Unload Sheeting	2	EA	
		Sheet Piling - Set up Rig	1	EA	
		Sheet Piling - Drive Sheets	83	EA	
		Sheet Piling - Cut Sheets	166	EA	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	2,500	ECY	
	Wingwalls	ABS, EBare pase - Class A - Lithini and histori	2,500	ECI	
	Steel Piles	Steel Piles - Furnish Material	36,214	LF	
	Steel Piles				
		Steel Piles - Set up Rig	1	EA	
		Steel Piles - Unload Piles	68	EA	
		Steel Piles - Weld Splices	140	EA	
		Steel Piles - Drive Piling	36,214	LF	
		Steel Piles - Cut Offs	0	EA	
		Steel Piles - Pile Test	0	EA	
	Concrete - Footing	Concrete - Footing - Form Strip and Cure	10,094	SF	
		Concrete - Footing - Pour	1,618	CY	
		Concrete - Footing - 5% Waste	81	CY	
	Concrete - Walls	Concrete - Walls - Build Forms	2,500	SF	
		Concrete - Walls - Assemble and Modify Forms	4	EA	
		Concrete - Walls - Form, Strip and Cure	70,391	SF	
		Concrete - Walls - Pour	4,600	CY	
		Concrete - Walls, Piers and Elevated Deck - 5% Waste	230	CY	
	Ca D -f				
	Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	475,419	LB	
		Steel Reinforcement Bars - Hoist	475,419	LB	
	Bridge Railing	Bridge Railing - Furnish and Install	1,400	LF	
	Sheet Piling	Sheet Piling - Furnish Material	10,900	SF	
		Sheet Piling - Unload Sheeting	9	EA	
		Sheet Piling - Set up Rig	2	EA	
		Sheet Piling - Drive Sheets	370	EA	
		Sheet Piling - Cut Sheets	740	EA	
	Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	800	ECY	
	Structural Aggregate Dackilli	LaPPinePare 2005 - Class A - Littilish and histori	000	201	
	Di	Calcat Carrylan Assessment French and Install	1,200	CY	
The state of the s	Riprap	Select Granular Aggregate - Furnish and Install	1,200	CT	

	umate Framew	ork and Quantities - LPP NORTH DAKO				.,	
			Riprap - Furnish and Install	2,400	CY		-
<u> </u>		Miscellaneous Features	Mechanical - Miscellaneous	1	LS	1	ļ
			Electrical - Miscellaneous	1	LS		-
			Safety Features - Miscellaneous	1	LS		-
			SCADA (Supervisory Control and Data Acquisition) System	1	LS		-
			Equipment Storage Shed	2,500	SF		
		Fish Passage System	Fish Passage System - Furnish and Install	50,000	SF		-
+			Hydraulic Gates - Steel - Furnish	150	SF	<u> </u>	
			Hydraulic Gates - Steel - Install	2	EA		
<u> </u>			Hydraulic Gate Hoist - Furnish and Install	2	EA		
			Steel Bulkhead	1	LS		
1 Levees and Floodwalls and Floodpro	oofina						
Levees and Floodwalls and Floodpic		BL East 2B (constructed in MN)					+
 			Silt Fence - Furnish and Install	47.000	LF	 	
	Tie-Back Levee	Temporary Erosion and Sedimentation Control		17,000		-	_
 			Temporary Sedimentation Basins	15,000	BCY		_
		Strip and Stockpile Topsoil - Channel	Topsoil - Strip	110,024	BCY		
			Topsoil - Stockpile	110,024	BCY	-	-
		Excavation and Embankment - Tie-Back Levee	Inspection Trench	35,250	LF		
<u> </u>			Earthwork - Tie Back Levee - Haul from diversion excavation	100,000	BCY	From 2019 - ND-26	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	735,320	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	835,320	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	835,320	BCY		
		Topsoil Placement	Topsoil - Install from Stockpile	110,024	BCY		
		Access Surfacing	Aggregate Base - Class V - Furnish and Install	7,000	ECY	1	
		Site Restoration	Seeding	113	AC	1	
			Straw Mulching and Disk Anchoring	113	AC		1
			Vegetation Establishment and Maintenance	113	AC		+
 		Embankment Erosion Control	Embankment Erosion Control	1	LS		1
+	Tio Back Loves T	BL Cass 17 (constructed in ND)	Embanisment Erosion Conti VI	1			_
+				44.000	1.5		
 	Tie-Back Levee	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install	11,000	LF	1	
			Temporary Sedimentation Basins	10,000	BCY	 	
		Strip and Stockpile Topsoil - Channel	Topsoil - Strip	68,739	BCY		-
			Topsoil - Stockpile	68,739	BCY	1	-
		Excavation and Embankment - Tie-Back Levee	Inspection Trench	22,320	LF	ļ	
			Earthwork - Tie Back Levee - Haul from diversion excavation	100,000	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	192,080	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	292,080	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	292,080	BCY		
		Topsoil Placement	Topsoil - Install from Stockpile	68,739	BCY		
		Site Restoration	Seeding	74	AC	1	1
1			Straw Mulching and Disk Anchoring	74	AC		1
<u> </u>			Vegetation Establishment and Maintenance	74	AC	1	1
		Embankment Erosion Control	Embankment Erosion Control	1	LS		+
	Lovos - Connection	g Channel - Reach 2018 (ND-23, 26)	Embanisment Erosian Conti Vi	1	2.5		-
	Levee - Connectin						-
ļ		Note: Quantities for a portion of the work included w/ Reach 2018	Diversion Channel Construction			1	
							-
		Excavation and Embankment - Channel - Type 1 Non-Saturated			L	Subtract From Reach 2018	1
		Non-Brenna	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	105,000	BCY	HEI dirtwork	-
			Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	105,000	BCY		
1			Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	ļ	-
		1	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment		BCY	I	
			Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	105,000	DCI		
			Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment				
			Inspection Trench	2,000	LF		
							-
			Inspection Trench	2,000	LF		
		Embankment Erosion Control	Inspection Trench Instrumentation	2,000	LF LF		
	Levee - Connectin		Inspection Trench Instrumentation Monuments and Markers	2,000	LF LF LS		
	Levee - Connectin	g Channel - Reach 2019 (ND-25)	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control	2,000	LF LF LS		
	Levee - Connectin		Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control	2,000	LF LF LS		
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2019	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control	2,000	LF LF LS	Subsections 2014 No.	
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2019 Excavation and Embankment - Channel - Type 1 Non-Saturated	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control Of Diversion Channel Construction	2,000 2,000 1 1	LF LF LS LS	Subtract From Reach 2019	
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2019	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	2,000 2,000 1 1 288,863	LF LF LS LS	Subtract From Reach 2019 HEI dirtwork	
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2019 Excavation and Embankment - Channel - Type 1 Non-Saturated	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,000 2,000 1 1 1 288,863 288,863	LF LF LS LS BCY BCY		
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2019 Excavation and Embankment - Channel - Type 1 Non-Saturated	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,000 2,000 1 1 1 288,863 288,863	LF LF LS LS LS BCY BCY BCY		
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2019 Excavation and Embankment - Channel - Type 1 Non-Saturated	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,000 2,000 1 1 1 288,863 288,863	LF LF LS LS BCY BCY		
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2015 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,000 2,000 1 1 1 288,863 288,863	LF LF LS LS LS BCY BCY BCY	HEI dirtwork	
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2015 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna Excavation and Embankment - Channel - Type 2 Saturated Non-	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	2,000 2,000 1 1 1 288,863 288,863 0 0 288,863	LF LF LS LS BCY BCY BCY BCY	HEI dirtwork Subtract From Reach 2019	
	Levee - Connectin	g Channel - Reach 2019 (ND-25) Note: Quantities for a portion of the work included w/ Reach 2015 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	Inspection Trench Instrumentation Monuments and Markers Embankment Erosion Control of Diversion Channel Construction Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	2,000 2,000 1 1 1 288,863 288,863	LF LF LS LS LS BCY BCY BCY	HEI dirtwork	

ction Cost Estimate Framewor	k and Quantities - Err NORTH DAN			.,	-,	
		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	142,000	BCY		
 			2 200	-l		
 		Inspection Trench	8,200	LF	<u> </u>	
 	+			-		
 	Miscellaneous Features	Instrumentation	8,200	LF		
 	 	Monuments and Markers	1	LS	<u> </u>	
 	Embankment Erosion Control	Embankment Erosion Control	1	LS		
 Storage Area 1						
	Storage Area 1 - Embankments					
	Site Preparation and Traffic Control	Site Preparation and Traffic Control	60,000	LS	-	
 	Temporary Erosion and Sedimentation Control	Silt Fence - Furnish and Install		LF	 	
	-	Erosion Control Blanket - Furnish and Install	4,000 83,000	BCY	+	
	Clearing and Grubbing	Temporary Sedimentation Basins Clearing and Grubbing	60	AC	 	
 	Strip and Stockpile Topsoil	Topsoil - Strip	1,000,000	BCY	+	
	Strip and Stockpile Topson	Topsoil - Stockpile	1,000,000	BCY	1	
 	Excavation and Embankment	Inspection Trench	59,000	LF	 	
	Exceptation and Embanancia	Earthwork - Type 1 Non-Saturated Non-Brenna - Excavate and Haul	900,000	BCY		
		Earthwork - Type 1 Non-Saturated Non-Brenna - Spoil	1,600,000	BCY	From DC	
		Earthwork - Type 1 Non-Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY	Trom BC	
	-	Earthwork - Type 1 Non-Saturated Non-Brenna - Levee Embankment	1,600,000	BCY		
	1	The state of the s	_,500,000	T	1	
	†	Earthwork - Type 2 Saturated Non-Brenna - Excavate and Haul	900,000	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Spoil	1,600,000	BCY	From DC	
	1	Earthwork - Type 2 Saturated Non-Brenna - Semi Compact and Manage Moisture Content	0	BCY		
		Earthwork - Type 2 Saturated Non-Brenna - Levee Embankment	1,600,000	BCY	1	
		M	,,	1		
	1	Earthwork - Haul From Channel	551,500	BCY		
	Dewatering and Control of Water	Control of Water	1	LS		
	Restore Local Roadways	Restore Local Haul Roadways - Aggregate Surfacing	2	Mile		
		Restore Local Haul Roadways - Bituminous Surfacing	1	Mile		
	Topsoil Placement	Topsoil - Install from Stockpile	1,000,000	BCY		
	Site Restoration	Seeding	620	AC		
		Straw Mulch and Disk Anchoring	620	AC		
		Vegetation Establishment and Maintenance	620	AC		
	Miscellaneous Features	Signage	1	LS		
		Chain link Fence	1,000	LF		
		Fence Vehicle Gates	6	EA		
		Instrumentation	59,000	LF		
	Miscellaneous	Monuments and Markers	1	LS		
	Embankment Erosion Control	Embankment Erosion Control	1	LS		
	Storage Area 1 - Inlet					
	Embankment Erosion Control	Embankment Erosion Control	1	LS		
					<u> </u>	
	Hydraulic Structure - Storage Area 1 - Closure/Drainage S	Structure (North)				
	Hydraulic Structure - Storage Area 1 - Closure/D					
		rainage Structure (North) - Site Work Note: Most Sitework is included under the Storage Area 1 Embankment				
			1	LS		
	Hydraulic Structure - Storage Area 1 - Closure/D	Note: Most Sitework is included under the Storage Area 1 Embankment	2,500	LF		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water	2,500 1.0	LF Mile		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing	2,500 1.0 0.0	LF Mile Mile		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding	2,500 1.0 0.0 4	LF Mile Mile AC		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring	2,500 1.0 0.0 4	LF Mile Mile AC AC		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance	2,500 1.0 0.0 4 4	LF Mile Mile AC AC		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Sjenage	2,500 1.0 0.0 4 4 4 1	LF Mile Mile AC AC AC LS		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence	2,500 1.0 0.0 4 4 4 1 1	LF Mile Mile AC AC AC LS LF		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features	Note: Most Sitework is included under the Storage Area 1 Embonkment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates	2,500 1.0 0.0 4 4 4 1	LF Mile Mile AC AC AC LS		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure	2,500 1.0 0.0 4 4 4 1 1	LF Mile Mile AC AC AC LS LF		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Fence Vehicle Gates Earthwork - Structural Excavation	2,500 1.0 0.0 4 4 4 1 1 400 2	LF Mile Mile AC AC AC LS LF EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di	Note: Most Sitework is included under the Storage Area 1 Embonkment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation	2,500 1.0 0.0 4 4 4 1 1 400 2	LF Mile Mile AC AC LS LF EA BCY BCY		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Fence Vehicle Gates Earthwork - Structural Excavation	2,500 1.0 0.0 4 4 4 1 1 400 2	LF Mile Mile AC AC AC LS LF EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Seeding Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Exavation Earthwork - Structural Exavation Earthwork - Structural Exavation	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embonkment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material	2,500 1.0 0.0 4 4 4 1 400 2 1,000 1,000 14,000	LF Mile Mile AC AC AC LS LF EA BCY BCY LF		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 14,000	LF Mile Mile AC AC AC LS LF EA BCY BCY LF EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embonkment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Stablishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Lunioad Piles	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 14,000 1 14,000 1 26	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Velioad Piles Steel Piles - Wolf Splices	2,500 1.0 0.0 4 4 4 1 400 2 1,000 1,000 1,000 14,000 1 26 100	LF Mile Mile Mile AC AC AC LS LF EA BCY BCY BCY EA EA EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Exavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unioad Piles	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 14,000 11 26 100 14,000	LF Mile Mile AC AC AC LS LF EA BCY BCY LF EA LF EA LF EA LF EA LF EA LF EA LF EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embonkment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Lunicad Piles Steel Piles - Unioad Piles Steel Piles - Cut Sheets	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 11 26 100 14,000 98	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA LF EA LF EA LF EA LF EA LF EA EA EA EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural Structure and Walls Steel Piles	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Facavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Weld Spilices Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 14,000 1 1 26 100 14,000 98	LF Mile Mile Mile AC AC AC AC LF EA BCY BCY BCY LF EA LF EA EA EA EA		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural	Note: Most Sitework is included under the Storage Area 1 Embonkment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Unload Piles Steel Piles - Ortve Piling Steel Piles - Cut Sheets Steel Piles - Cut Sheets Steel Piles - Cut Sheets Steel Piles - Cut Sheets Steel Piles - Cut Sheets	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 14,000 11 26 100 14,000 98 3 800	LF Mile AC AC AC AC LS LF EA BCY BCY BCY LF EA EA LF EA EA SF		
	Hydraulic Structure - Storage Area 1 - Closure/Di Dewatering and Control of Water Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Closure/Di Earthwork - Structural Structure and Walls Steel Piles	Note: Most Sitework is included under the Storage Area 1 Embankment Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates rainage Structure (North) - Structure Earthwork - Structural Facavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Set up Rig Steel Piles - Weld Spilices Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 14,000 1 1 26 100 14,000 98	LF Mile Mile Mile AC AC AC AC LF EA BCY BCY BCY LF EA LF EA EA EA EA		

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Concrete - Walls	Concrete - Walls - Build Forms	2,000	SF	i	
	Concrete - Walls - Assemble and Modify Forms	2	EA		
	Concrete - Walls - Form, Strip and Cure	150,000	SF		<u> </u>
 	Concrete - Walls - Pour	752	CY	+	
			CY		
	Concrete - Walls, Piers and Elevated Deck - 5% Waste	38			
Concrete - Piers	Concrete - Pier - Build Forms	0	SF		
	Concrete - Pier - Assemble and Modify Forms	0	EA		
	Concrete - Pier - Form, Strip and Cure	0	SF		
	Concrete - Pier - Pour	0	CY	1	
	Concrete - Walls, Piers and Elevated Deck - 5% Waste	0	CY		
Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure	0	SF	+	<u> </u>
Concrete - Elevated Deck		85	CY		
	Concrete - Elevated Deck - Pour				ļ
	Concrete - Walls, Piers and Elevated Deck - 5% Waste	4	CY		
Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	233,000	LB	l	
	Steel Reinforcement Bars - Hoist	233,000	LB		
Hydraulic Gates - Steel	Hydraulic Gates - Steel - Furnish	100	SF		
	Hydraulic Gates - Steel - Install	1	EA	+	
		1		+	
 	Hydraulic Gate Hoist - Furnish and Install		EA		
Bulkheads - Steel	Bulkheads - Steel - Furnish	1	LS		
Bridge Railing	Bridge Railing - Furnish and Install	100	LF		
Sheet Piling	Sheet Piling - Furnish	900	SF		
	Sheet Piling - Unload Sheeting	1	EA		
	Sheet Piling - Set up Rig	1	EA	1	
		61	EA	+	+
	Sheet Piling - Drive Sheets			 	
	Sheet Piling - Cut Sheets	30	EA	 	
Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	1,000	ECY		
Riprap	Select Granular Aggregate - Furnish and Install	200	CY		
	Riprap - Furnish and Install	400	CY		
 Miscellaneous Features	Mechanical - Miscellaneous	1	LS		
iviscellatieous reatures				+	
	Electrical - Miscellaneous	1	LS		
 	Safety Features - Miscellaneous	1	LS		
	SCADA (Supervisory Control and Data Acquisition) System	1	LS		
	Equipment Storage Shed	2,000	SF		
Hydraulic Structure - Storage Area 1 - Closure/Dr	rainage Structure (Fast)				
					
Hydraulic Structure - Storage Area 1 - Clos	sure/Drainage Structure (East) - Site Work				
	Note: Most Sitework is included under the Storage Area 1 Embankment			1	
Dewatering and Control of Water		1	LS		
Dewatering and Control of Water	Control of Water		LS		
Electrical Utilities	Control of Water Electrical Utilities	2,500	LF		
	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing	2,500 1.0	LF Mile		
Electrical Utilities Restore Local Roadways	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing	2,500 1.0 0.0	LF Mile Mile		
Electrical Utilities	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding	2,500 1.0 0.0 4	LF Mile Mile AC		
Electrical Utilities Restore Local Roadways	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing	2,500 1.0 0.0	LF Mile Mile		
Electrical Utilities Restore Local Roadways	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring	2,500 1.0 0.0 4	LF Mile Mile AC AC		
Electrical Utilities Restore Local Roadways Site Restoration	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance	2,500 1.0 0.0 4 4 4	LF Mile Mile AC AC		
Electrical Utilities Restore Local Roadways	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage	2,500 1.0 0.0 4 4 4 1	LF Mile Mile AC AC AC		
Electrical Utilities Restore Local Roadways Site Restoration	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence	2,500 1.0 0.0 4 4 4 1 1 400	LF Mile Mile AC AC AC LS LF		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Stam Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates	2,500 1.0 0.0 4 4 4 1	LF Mile Mile AC AC AC		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure	2,500 1.0 0.0 4 4 4 1 1 400 2	LF Mile Mile AC AC AC LS LF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Stam Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates	2,500 1.0 0.0 4 4 4 1 1 400	LF Mile Mile AC AC AC LS LF		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure	2,500 1.0 0.0 4 4 4 1 1 400 2	LF Mile Mile AC AC AC LS LF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000	LF Mile Mile AC AC LS LF EA BCY BCY		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation	2,500 1.0 0.0 4 4 4 1 1 400 2	LF Mile Mile AC AC AC LS LF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 14,000	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Ferurish Material Steel Piles - Set up Rig	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 14,000 1	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Furnish Material Steel Piles - Fet up Rig Steel Piles - Fet up Rig Steel Piles - Jet up Rig	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 14,000 1	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Ferurish Material Steel Piles - Set up Rig	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 14,000 1	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Exavation Earthwork - Structural Exavation Earthwork - Structural Exavation Steel Piles - Furnish Material Steel Piles - Set up Rig Steel Piles - Julioad Piles Steel Piles - Unload Piles	2,500 1.0 0.0 4 4 4 1 1 400 2 1,000 1,000 1,000 1 14,000 1 1 26	LF Mile Mile AC AC AC AC LS LF EA BCY BCY BCY LF EA LF EA LF EA EA EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Unioad Piles	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 11,000 11,000 11,000 11,000 11,000 11,000	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA LF EA LF EA LF EA LF EA LF		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Stabilshment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - St	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 126 1100 14,000 98	LF Mile Mile AC AC AC AC LS LF EA BCY BCY BCY LF EA EA LF EA LF EA LF EA LF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Sure/Pariange Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Lunioad Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Lur Steets Steel Piles - Drive Piling Steel Piles - Lur Steets Steel Piles - Lur Steets Steel Piles - Lur Steets Steel Piles - Lur Steets Steel Piles - Lur Steets Steel Piles - Lur Steets Steel Piles - Lur Steets Steel Piles - Lur Steets	2,500 1.0 0.0 4 4 4 4 1 400 2 1,000 1,000 1,000 1,000 14,000 1 26 100 14,000 98 3	LF Mile Mile AC AC AC AC LS LF EA BCY BCY BCY LF EA LF EA EA EA EA EA		
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Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Weld Spilices Steel Piles - Weld Spilices Steel Piles - Weld Spilices Steel Piles - Unioad Pilies Steel Piles - Oren Piling Steel Piles - Oren Piling Steel Piles - Piling Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Steel Pilies - Oren Strip and Cure	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1,000 11 26 100 114,000 98 3 800	LF Mile AC AC AC AC LS LF EA BCY BCY BCY LF EA EA EA EA EA SF		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Pirest Concrete - Footing - Form Strip and Cure Concrete - Footing - Four	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1,000 11,000 14,000 98 3 800 705 35	LF Mile Mile AC AC AC LS LF EA BCY BCY LF EA LF EA EA EA EA EA EA CY CY CY CY CY CY CY CY CY CY CY CY CY		
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Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Fence Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Weld Spilices Steel Piles - Weld Spilices Steel Piles - Undad Piles Steel Piles - Oren Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Pour Concrete - Walls - Skwaste Concrete - Walls - Skwaste Concrete - Walls - Shud Cure	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1,000 14,000 1 14,000 1 14,000 98 3 800 705 35 2,000 2	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY CY CY CY CY CY SF EA Mile Mile Mile Mile Mile Mile Mile Mile		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Exavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Fet up Rig Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Unioad Piles Steel Piles - Drive Piling Steel Piles - Chrise Steel Steel Steel Piles - Order Sheets Steel Piles - Concrete - Footing - Form Strip and Cure Concrete - Footing - Ste Waste Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Sasemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Sprin, Sprin and Cure Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Form, Strip and Cure Concrete - Walls - Pour	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1 14,000 98 3 800 705 35 2,000 2 150,000 752	LF Mile Mile Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA CA EA CA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Fence Structural Excavation Steel Piles - Furnish Material Steel Piles - Furnish Material Steel Piles - Weld Spilices Steel Piles - Weld Spilices Steel Piles - Undad Piles Steel Piles - Oren Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Pour Concrete - Walls - Skwaste Concrete - Walls - Skwaste Concrete - Walls - Shud Cure	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1,000 14,000 1 14,000 1 14,000 98 3 800 705 35 2,000 2	LF Mile Mile AC AC AC LS LF EA BCY BCY BCY CY CY CY CY CY SF EA Mile Mile Mile Mile Mile Mile Mile Mile		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing Concrete - Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates Surre/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Embankment Steel Piles - Furnish Material Steel Piles - Lunioad Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Fortis Frest Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Swaste Concrete - Walls - Build Forms Concrete - Walls - Swastel Concrete - Walls - Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form Strip and Cure Concrete - Walls - Form, Strip and Cure Concrete - Walls - Form Strip and Cure	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1 14,000 98 3 800 705 35 2,000 2 150,000 752	LF Mile Mile Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA CA EA CA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Fet up Rig Steel Piles - Fet up Rig Steel Piles - Weld Spilices Steel Piles - Weld Spilices Steel Piles - Drive Piling Steel Piles - University Structure Steel Piles - Drive Piling Steel Piles - Chrosets Steel Piles - Steel Sheets Concrete - Footing - Form Strip and Cure Concrete - Footing - Form Strip and Cure Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Assemble and Modify Forms Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Poet and Elevated Deck - 5% Waste Concrete - Walls - Pour	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1,000 1,000 14,000 11 26 100 14,000 98 3 800 705 35 2,000 2 150,000 752 38	LF Mile Mile AC AC AC AC LS LF EA BCY BCY BCY CY CY CY CY CY CY SF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing Concrete - Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Exphankment Steel Piles - Ferunish Material Steel Piles - Set up Rig Steel Piles - Junioad Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Order Sheets Steel Piles - Pile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - SW Waste Concrete - Walls - Born, Strip and Gure Concrete - Walls - Sern, Strip and Gure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Buil Forms Concrete - Walls - Pour Goncrete - Pour - Build Forms Concrete - Walls - Pour Concrete - Pour - Build Forms	2,500 1.0 0.0 4 4 4 4 1 400 2 1,000 1,000 1,000 1,000 14,000 1 26 100 14,000 98 3 800 705 35 2,000 2 150,000 752 38 0 0	LF Mile Mile Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA EA CY CY SF EA CY CY SF EA		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing Concrete - Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Haul Earthwork - Structural Haul Earthwork - Structural Haul Steel Piles - Fernish Material Steel Piles - Fernish Material Steel Piles - Weld Splices Steel Piles - Weld Splices Steel Piles - Unioad Piles Steel Piles - Unioad Piles Steel Piles - Ore Structure Piles Steel Piles - Piles Structure Piles Concrete - Footing - Form Strip and Cure Concrete - Footing - Pour Concrete - Footing - Pour Concrete - Walls - Build Forms Concrete - Walls - Swesteel Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Poin - Strip and Cure Concrete - Walls - Pour - Assemble and Modify Forms Concrete - Pier - Rosemble and Modify Forms	2,500 1.0 0.0 4 4 4 4 1 1 400 2 1,000 1,000 1,000 1,000 14,000 14,000 98 3 800 705 35 2,000 2 150,000 752 38 0 0 0	LF Mile Mile Mile AC AC AC AC LS LF EA BCY BCY BCY BCY CY CY CY CY CY CY SF EA SF CY CY SF EA SF SF EA SF CY SF EA SF		
Electrical Utilities Restore Local Roadways Site Restoration Miscellaneous Features Hydraulic Structure - Storage Area 1 - Clos Earthwork - Structural Structure and Walls Steel Piles Concrete - Footing Concrete - Walls	Control of Water Electrical Utilities Restore Local Haul Roadways - Aggregate Surfacing Restore Local Haul Roadways - Bituminous Surfacing Seeding Straw Mulch and Disk Anchoring Vegetation Establishment and Maintenance Signage Chain link Fence Fence Vehicle Gates sure/Drainage Structure (East) - Structure Earthwork - Structural Excavation Earthwork - Structural Excavation Earthwork - Structural Exphankment Steel Piles - Ferunish Material Steel Piles - Set up Rig Steel Piles - Junioad Piles Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Drive Piling Steel Piles - Order Sheets Steel Piles - Pile Test Concrete - Footing - Form Strip and Cure Concrete - Footing - SW Waste Concrete - Walls - Born, Strip and Gure Concrete - Walls - Sern, Strip and Gure Concrete - Walls - Pour Concrete - Walls - Pour Concrete - Walls - Pour Buil Forms Concrete - Walls - Pour Goncrete - Pour - Build Forms Concrete - Walls - Pour Concrete - Pour - Build Forms	2,500 1.0 0.0 4 4 4 4 1 400 2 1,000 1,000 1,000 1,000 14,000 1 26 100 14,000 98 3 800 705 35 2,000 2 150,000 752 38 0 0	LF Mile Mile Mile Mile AC AC AC LS LF EA BCY BCY BCY LF EA EA CY CY SF EA CY CY SF EA		

			Concrete - Walls, Piers and Elevated Deck - 5% Waste	0	CY	
		Concrete - Elevated Deck	Concrete - Elevated Deck - Form Strip and Cure	0	SF	
			Concrete - Elevated Deck - Pour	85	CY	
			Concrete - Walls, Piers and Elevated Deck - 5% Waste	4	CY	
		Steel Reinforcement Bars	Steel Reinforcement Bars - Furnish and Install	233,000	LB	
			Steel Reinforcement Bars - Hoist	233,000	LB	
		Hydraulic Gates - Steel	Hydraulic Gates - Steel - Furnish	100	SF	
			Hydraulic Gates - Steel - Install	1	EA	
			Hydraulic Gate Hoist - Furnish and Install	1	EA	
		Bulkheads - Steel	Bulkheads - Steel - Furnish	1	LS	
		Bridge Railing	Bridge Railing - Furnish and Install	100	LF	
		Sheet Piling	Sheet Piling - Furnish	900	SF	
			Sheet Piling - Unload Sheeting	1	EA	
			Sheet Piling - Set up Rig	1	EA	
			Sheet Piling - Drive Sheets	61	EA	
			Sheet Piling - Cut Sheets	30	EA	
		Structural Aggregate Backfill	Aggregate Base - Class V - Furnish and Install	1,000	ECY	
		Riprap	Select Granular Aggregate - Furnish and Install	200	CY	
			Riprap - Furnish and Install	400	CY	
		Miscellaneous Features	Mechanical - Miscellaneous	1	LS	
			Electrical - Miscellaneous	1	LS	
			Safety Features - Miscellaneous	1	LS	
			SCADA (Supervisory Control and Data Acquisition) System	1	LS	
			Equipment Storage Shed	2,000	SF	
14 Recreation Facilities	(Corps of Engineers)					
30 Planning, Engineering and Design	(Corps of Engineers)					
31 Construction Management	(Corps of Engineers)					